

SF

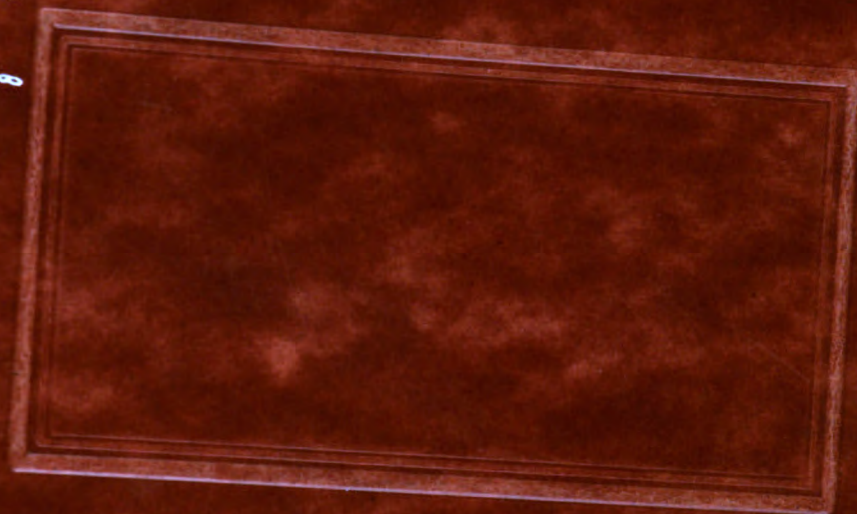
481

E291

v. 6

July-Dec.

1922







ALBERT R. MANN  
LIBRARY

NEW YORK STATE COLLEGES  
OF  
AGRICULTURE AND HOME ECONOMICS



AT  
CORNELL UNIVERSITY



[illegible]

Digitized by Google







*Jul - Dec 1922 SF*  
*481*  
*E291*



# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
 Vol. VI. No. 1. Copyright

Edited by TOM NEWMAN.  
 PRICE TWO PENCE.

Twelve Months Post Free 12/6  
 Six Months " " 6/4  
 Three Months " " 3/3



**No. 1. FOUNTAIN.**  
 Most useful for chicks. It prevents drowning.  
 Price:  
 Size No. 1 (1 pt.), 6s. 6d.; 3 for 7s.; 6 for 13s. 6d.; 12 for 25s. 6d.  
 Size No. 2 (1 qt.), 8s.; 3 for 8s. 6d.; 6 for 16s. 6d.; 12 for 31s. 6d.  
 Carriage Paid Passenger Train.  
 Prompt Despatch.

**The "DELTA"**  
 Non-Clog Dry Mash Hopper. Rat Proof.  
 No. 1 is 18in. x 8in.  
 No. 2 is 18in. x 12in.  
 No. 3 is 18in. x 18in.  
 Price: No. 1, 8s. 6d.; for 24s. 9d.; 6 for 47s. 3d.; 12 for 90s. 6d.  
 No. 2, 11s.; 3 for 32s.; 6 for 11s. 6d.; 12 for 114s.  
 No. 3, 14s.; 6 for 40s.; 12 for 144s.  
 Carriage Paid Passenger Train.  
 Prompt Despatch.



**"The Pearl"**  
 Grit or Shell Hopper.  
 12in. deep, 6in. wide, 6in. long.  
 Price 4s. 3d.  
 3 for 13s. 9d.; 6 for 27s.; 12 for 51s.  
 Carriage paid Passenger Train.  
 Prompt Despatch.



**Use  
HEBDITCH'S  
Strong  
Galvanised  
Hoppers and  
Fountains.  
They are the Best.**

**Best British Galvanised Wire Netting.**  
 Per roll of 50 yards.  

MESH	1 ft. wide	2 ft. wide	3 ft. wide	4 ft. wide	5 ft. wide	6 ft. wide
3 in.	4/-	7/2	9/10	13/2	16/5	19/8
2 in.	5/6	10/-	13/7	18/1	22/7	27/1
1 in.	9/-	16/4	23/2	30/11	38/7	46/4

 Other sizes quoted for. Consignments of £6 5s. value and upwards carriage paid in England and Wales. Prompt Despatch.  
 Don't buy Continental Rubbish.

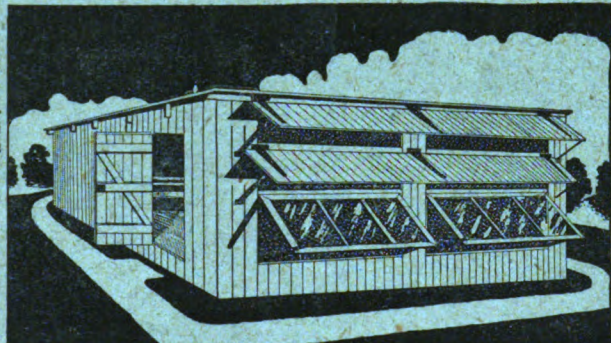


**No. 3 FOUNTAIN.**  
 Made in two parts and easily cleaned.  
 Price:  
 Size No. 1 (2-gal.), 3s.; 2 for 8s. 6d.; 6 for 16s.; 12 for 30s.  
 Size No. 2 (1 gal.), 3s.; 6d.; three for 10s.; six for 19s. 6d.; twelve for 36s. 6d.  
 Size No. 3 (2 galls.), 5s. 6d.; three for 16s.; six for 31s.; 12 for 60s.  
 Car. Pd. Pass. Train.  
 Prompt Despatch.

## THE "MARTOCK" INTENSIVE HOUSE.

A first-class Intensive House made the Hebditch way.

Long	Width	Height at back	Height at front
No.	Ft.	Ft.	Ft.
1	6	10	5
2	10	10	5
3	10	16	4 1/2
4	20	16	4 1/2
5	30	16	4 1/2
6	40	16	4 1/2
7	50	16	4 1/2
8	60	16	4 1/2
9	70	16	4 1/2
10	80	16	4 1/2
11	100	16	4 1/2
12	120	16	4 1/2



**Prices.**

£	s.	d.	£	s.	d.
14	5	0	3	4	0
19	14	0	4	15	0
26	3	0	8	6	0
43	10	0	15	16	0
63	18	0	22	12	0
85	0	0	29	8	0
106	8	0	36	4	0
126	16	0	43	0	0
146	17	0	49	16	0
167	5	0	56	12	0
209	9	0	70	4	0
248	4	0	83	16	0

The "MARTOCK" is built on an extra strong frame. The walls and roof are of 3in. best Swedish deal boards, which are tongued, grooved, and V-jointed. The floor is on very strong pickled joists. Movable perches, wide dropping-board, nest-boxes, adjustable windows, and ventilating shutters. The house is built in sections, and so sent out, with all the necessary bolts for erecting. Carriage paid in England and Wales. Prompt despatch. If pickled by Preserolium the cost is 1s. 6d. in the £ extra.

**Special Offer of BEST QUALITY NEW SWEDISH RED DEAL TIMBER, Bright and Clean,**  
 4 1/2in. by 3in. Matched, tongued, grooved and V-jointed planed boards 6/5  
 4 1/2in. by 3in. ditto, ditto. 7/2  
 Per 100 feet run.

**Best Swedish and Finnish Imported Battens**

Per 100 feet run		Per 100 feet run	
3in. by 2in.	at 2/6	4in. by 1 1/2in.	at 13/-
1in. by 2in.	" 4/-	2in. by 1 1/2in.	" 7/-
4in. by 3in.	" 4/6	2in. by 2in.	" 8/-
4in. by 3in.	" 5/-	2in. by 3in.	" 12/-
4in. by 1in.	" 7/6	2in. by 4 1/2in.	" 18/-
3in. by 1in.	" 6/6	2in. by 5in.	" 20/-

All above Free on Rail, Martock. Prompt Despatch.

### Galvanised Corrugated Iron Sheets.

Length.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.
1st Qty.	2/4	2/9	3/1	3/6	4/-	4/6
2nd Qty.	1/9	2/-	2/3	2/6	2/9	3/-

2ft. 2 1/2in. wide.

**SANDED ROOFING FELT,** in rolls 15 yards long, 1 yard wide, 5s. 6d. per roll. 20 rolls and upwards carriage paid.  
**Pluvex Felt,** in rolls 12 yards long by 1 yard wide, 8s. per roll. Two rolls and over carriage paid. Leatherette Felt, in rolls 15 yards by 1 yard, 14s. per roll, carriage forward. Prompt Despatch.

**No. 2 FOUNTAIN.**  
 A Protective Design, which keeps the water pure. Price:  
 Size No. 1 (2-gal.), 3s.; 3 for 8s. 6d.; 6 for 16s.; 12 for 30s.  
 Size No. 2 (1-gal.), 3s. 6d.; 3 for 10s. 6d.; 6 for 19s. 6d.; 12 for 36s. 6d.  
 Size No. 3 (2-gal.), 5s. 6d.; 3 for 16s.; 6 for 31s.; 12 for 60s.  
 Car. Pd. Pass. Train.  
 Prompt Despatch.



**HARRY HEBDITCH, Ltd.,** Desk J, The Poultry, Appliance Works, Martock, Somerset.

Phone: Martock 2.



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandott and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony ?

Letter No. 58.

Quarr Hill, Binstead, I.O.W.  
25th March, 1922.

Dear Mr. Priest,—

For some time I have intended writing you re the chickens I had from you last year.

My cockerels at 4 months weighed over 9 lbs., and the pullets laid from six months, and have kept it up. I had two pens of other breeds, and at the same age they only weighed 4½ lbs.; the pullets laid two months later, and it cost me 2s. per week more to feed the six in number and one cockerel.

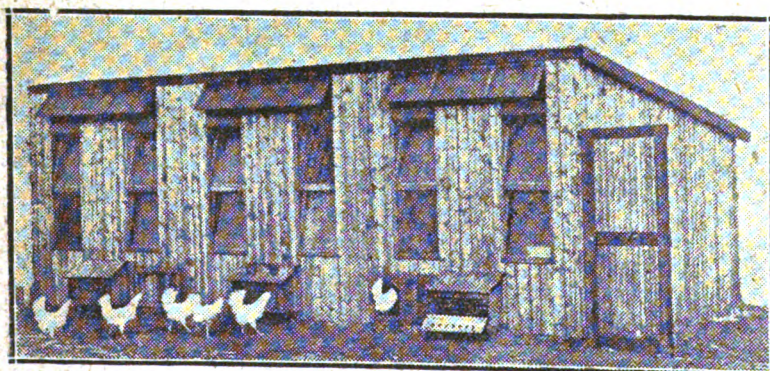
I would also like to state that I have never handled birds so quiet—to me a very important asset, as they never knock themselves about. From the day-old they were put out and never coddled up.

I should also like to thank you for your treatment to me and your help. The kindness of you and your staff made the rearing a pleasure.

Yours sincerely,  
JEAN RUDYERD-HELPMAN.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.



## The "LYMM" Intensive House.

The Finest Intensive House or Brooder House on market, and the cheapest. Made throughout from 1 in. and G. Boards, on 3 in. framework. Rough 1 in. Glass (1 in.) Windows are fixed along the front of house, and are of Louvre pattern, falling inwards wooden hoppers. Glass panels are also fixed in back floor. Fitted up with Dropping Boards, Perches, Outside Nest Boxes, Earthenware Drinking Troughs in Outside Boxes, etc. The whole treated Inside and Out with Wood Preservative. Roof covered with Rubberoid. All bolts together in sections, and extra sections can be added at any time.

No.	Length.	Width.	Height at Front.	Height at Back.	£ s. d.	Floor.	No.	Length.	Width.	Height at Front.	Height at Back.	£ s. d.	Floor.
17	9ft. 0in.	7ft. 0in.	6ft. 6in.	5ft. 0in.	13 5 0	1 17 0	20	22ft. 6in.	12ft. 0in.	8ft. 0in.	5ft. 6in.	38 0 0	7 10 0
19	15ft. 0in.	10ft. 0in.	8ft. 0in.	5ft. 6in.	26 10 0	4 10 0	21	30ft. 0in.	14ft. 0in.	8ft. 0in.	5ft. 6in.	55 0 0	12 7 0
							22	45ft. 0in.	14ft. 0in.	8ft. 0in.	5ft. 6in.	75 0 0	19 0 0

Sleepers are included when floor is ordered on which to stand same. If Outside Nests and Drinking Troughs are not required deduct 7½ per cent. from above prices. All prices carriage paid to most Stations in England and Wales.

Book your orders now for delivery at once, or at any date you wish. Timber prices are stiffening. Illustrated Catalogue of various designs free on application to

# J. H. HOLT & SON, M.S.P.B.A.,

## LYMM, CHESHIRE.

Telephone: 26 LYMM.

WE SPECIALISE IN PORTABLE BUILDINGS OF ALL KINDS.



# Do you count on Chance or Science?

FOR the success of your business? If you  
rely upon chance you will buy

## Sittings and Day-old Chicks

from any "Laying Strain" being  
offered, and, *with luck*, you may do  
well with them. But if you wish to  
eliminate all risk, look for stock that  
has done something in the GREAT  
OPEN TESTS, that is doing something,  
and will do still more—SCIENCE in  
Utility pedigree breeding is represented by

## Cam's Strains.

WHITE LEGHORNS. WHITE WYANDOTTES.

Satisfaction Guaranteed.

**EDWARD CAM,**  
The Glen Poultry Farm,  
HOGHTON,  
near PRESTON,  
Lancs.

### Reduced Prices.

EGGS from  
10/6 to  
£3 3s. doz.

CHICKS from  
21/- to  
£5 8s. doz.



**BLACK, also WHITE LEGHORNS,**  
6-to-the-lb. Egg Strain.



Large Eggs.

High Records.

Hardy Stock.



Eggs, 6/- Chicks, 12/6. Three Months-old  
Pullets, 10/6. 1921 Trap-nested Hens, 10/-  
Breeding Pens, 7 Birds 67/6. Catalogue post free.

Dept. C; **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1920 and 1921 Hens.  
All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
NETHERBY HALL, SEDGLEY,  
STAFFS.

## SPECIAL LIME STONE GRIT.

NONE GENUINE WITHOUT THIS  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.).

3s. 6d. per cwt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Maltbreak," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It."

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2, 5s. 9d.  
3, 8s. 6d.; 5, 13s. 3 owt. Sales  
canvases covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.**

82, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.



## Leckhampton Poultry Grit.

THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £2 10s. 0d. per  $\frac{1}{2}$  ton; £4 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per  $\frac{1}{2}$  ton; £3 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## S. & J. PARSONS,

THE POULTRY FARM, MUSBURY, DEVON

Winners of Gold, Silver and Bronze Medals.

Breeders of the Highest Class Pedigree Utility Stock. Stamina, Size of Egg, Type and Colour a Speciality.

We can now offer a magnificent lot of Pullets and Cockerels (also a limited number of Breeding Pens), in both White Wyandottes and White Leghorns, at most Moderate Prices.

Our birds are consistent winners in the various laying competitions, which proves beyond doubt the question of stamina.

To those who are needing Special Pedigree Cockerels, we shall be pleased to send sample eggs from selected dams.

Full Particulars on Application.

UTILITY (s.c.) R.I.R. (February and March, 1922, hatched), Cockerels, from pen of birds, which averaged 62½ 2oz. and over eggs in four winter months. Highest records 83 and 84, mated to Cock from dam, with record of 278 2½oz. eggs.

Non-Broody Pullets, bred from these Cocks last year proved 83 per cent. L2. 12s. 6d. each and upwards, according to quality, and carriage paid.

MID-ESSEX POULTRY FARM,  
RAMSDEN HEATH, BILLERICAY.  
F. Bird, M.S.P.B.A., Proprietor.

Maker of the "Mid-Essex" Trap-nest Front, will fit existing nests, is automatic in action, and extremely simple. Sample Front, on approval, 3s. 6d., post free.

Agent for the "Planok" Cold Brooder.

## HEPPELL'S HOPPERS.



### A SKETCH TELLS A STORY THAT CANNOT BE PUT INTO WORDS.

The Efficient NON-CHOKE Design of the Wasteless Hopper is apparent, but the true test is in actual use. You can return it if not satisfactory! Order through the S.P.B.A.

Length	14 in.	21 in.	28 in.	35 in.	Carriage
Price	8/-	10/-	12/6	15/6	Paid.

ILLUSTRATED LIST OF "EVERY-DAY" APPLIANCES POST FREE.  
Water Fountains, Top Fill and otherwise. Grit Hoppers, etc. Poultry Houses.  
DRY LAYING MASH, 16/6 cwt. (F.O.R., Bag Free).

**W. J. HEPPELL,** Appliance Poultry Farm, Tantobie, Co. Durham.

### A REFLEX

British Laying "Strains" are the best the world, and no "Strain" has more to make them so than

## Tom Barron

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1822 Individual Super Cockerels. They will cost later more than 10 times their value now. They are a proposition for those who have room to breed them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets

Profusely Illustrated Catalogue and List sent on request. Postage 2d.

### OF PROGRESS.

## "Poultry Foods and Feeding"

ALSO

## "Chicken Rearing,"

BY

**TOM NEWMAN,**

Rudgwick, Sussex.

Price SEVENPENCE each,  
Post Free.

## "An Egg in Every Ounce."

## CLOVER MEAL

FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England.

**ROSSLYN & Co.,**

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, July 5th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months; 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE REARING PROBLEM.

During the past season we have had a sharp reminder that the rearing problem is always with us. It has become more acute, and the need for close investigation more urgent, because even the most optimistic of us must recognise that we cannot afford the losses which we were able to do two or three years' ago. We are not receiving such remunerative prices for our produce, neither are we likely to do so again. This is not written in a pessimistic spirit, we are in a better position as far as our industry is concerned than we were in pre-war days, there is no reason for anxiety as to the future, but we must cut unnecessary losses.

To a very great extent it is a "brooder" problem, the question of disease we can leave for the present. It was frequently remarked during the recent controversy on Bacillary White Diarrhoea, that chicks from affected flocks could be reared without loss under hens, while under artificial conditions they died like flies. That fact should cause us to think furiously.

What are the conditions which so lower the resistant power of the artificially-reared chick, as to render it an easy prey to disease, while its naturally-reared brothers and sisters are healthy and vigorous? Why in the absence of disease is the mortality so much greater in the brooders? There are types of brooders which are real death-traps; those we need not consider. The fact remains that with the average brooder, or brooder system, we have a much higher rate of mortality than with the broody hen, and we must admit that the chicks which are reared do not compare favourably with hers. We are seeking an explanation, not offering one; any suggestions our readers can offer

will be welcomed. The problem has never yet been discussed in detail, and any discussion may be helpful.

The percentage mortality in the smaller brooders is not nearly so high as in the larger ones. This assertion is not made in order to advocate the rearing of chicks in smaller units, but as a statement of fact which may throw some light on the whole problem.

Heavy losses are undoubtedly incurred through faulty temperatures; the mischief done in one night by over-heating, cannot be undone. The same remark applies to too low a temperature, but these are matters for individual attention, and are hardly to be avoided when that much-desired event, the perfect brooder, is invented.

The question of "Fumes," either from oil lamps or anthracite stoves, naturally presents itself, but, speaking generally, this does not appear to be a serious question.

We are now up against the atmospheric conditions. Does the lamp, or stove, so exhaust the oxygen supply, that the chick becomes enervated? What is the effect of large numbers of chicks massed together? What is the atmosphere they are breathing like? We know the pretty pictures of a ring of chicks four deep round an anthracite stove, we know the awful reality, a huddled mass, crowding the one the top of the other with the chicks in the centre crushed or sweated, those on the outside possibly chilled. Oxygen is necessary to healthy development. Is it likely that it is present in sufficient quantity with a crowd of chicks in such a small compass as this? Surely the atmosphere must be charged by the carbon-dioxide exhaled by the chicks. This, then, would seem to bring the problem to one of (1) a means of preventing the exhaustion of the oxygen supply by lamp or stove, (2) a means of obviating the massing of the chicks. Is it an insoluble problem? Chicks would certainly be breathing a purer atmosphere, if they were raised an inch or two off the ground. Could a platform be constructed of slats nailed half-an-inch apart on which they could sleep? and is it feasible to construct it in such a way as to prevent "massing"? Believing as we do that the heavy losses incurred are due to the atmosphere being depleted of oxygen by lamps and stoves in the first place, and in the second being charged with carbon-dioxide from the exhalations of the chicks, we have ventured to call attention to this as being the crux of the problem, and leave to cleverer brains than ours the question of obviating it. Meantime we shall be pleased to receive our readers' suggestions on a topic which is of such vast importance to us all.

### AN EXEMPLARY SENTENCE.

The severe sentence passed at the Watford Petty Sessions on the thieves who were arrested with fowls in their possession which they had stolen from Mr. Meeking's farm at Watford, was well merited, and

should act as a deterrent to many of the poultry thieves who have in the past escaped with a small fine, or who have been otherwise inadequately punished. Magistrates as a rule have taken a very lenient view in these sort of cases, and the rustic who snares a rabbit, is more severely dealt with than the poultry thief who often makes away with several pounds' worth of birds in a night. In one case, a man found with stolen fowls in his possession was let off with a fine of £5. There had been many complaints in the neighbourhood, from one farm alone 40 pullets were taken. It is to be hoped that the example of the Watford magistrates will be followed by others, and the stealing of fowls be treated as a crime—not as a practical joke.

#### DEFINITION OF A PULLET.

Representatives of the Poultry Club, N.U.P.S., and S.P.B.A., met on June 27th, to report the decisions of their respective Councils with reference to the Definition of a Pullet, which had been submitted to them from the last meeting. The Delegates stated that each of the three Societies had unanimously agreed, that, for the benefit of the Industry, it was desirable that two representatives from the three bodies should meet from time to time to discuss matters of mutual interest.

## Foods and Feeding.

By TOM NEWMAN.

#### MANGOLDS AND HATCHABILITY.

Mr. E. D. Read writes:—

"I have usually fed mangold to all stock after Christmas, but I have just had a letter from a big poultry-keeper in Canada (who incubates 24,000 eggs every three weeks in the season), and he tells me he has given up using these, and this year his hatches have been far better than any since he started, 15 years' ago. He says he got the tip from some large breeder in the States. In my own small way this season, I also found later hatches better than early hatches (when I fed mangolds), but this, of course, would be of no value as corroborative evidence. I should be glad to know if you or any of the readers of "Eggs" have found mangolds detrimental to breeding stock.

I am rather keen to feed sprouted oats on a fairly large scale throughout the winter, but am not sufficiently acquainted with the best way to get good results. Could you write us an article in "Eggs" about this?"

I have heard before that mangolds if fed freely have a detrimental effect on the hatchability of eggs, but I have never been able to get definite evidence, never having fed them to any great extent myself, it is impossible to express an opinion. Mr. Read's friend had the best results he has had for 15 years, when for the

first time he did without them, but that does not definitely prove that they have had a bad effect on the hatchability of the eggs in previous years, although, as he had the tip from another big breeder in the States, one would think there was something in it. But what is the explanation? They are generally recommended as a substitute for green food, at best can be but a partial one, as they are very deficient in both lime and phosphoric acid. They are certainly not equal in value to the swede, both these roots need supplementing by a good sample of Clover or Alfalfa Meal, as the sole substitute for green food they are useless. The mangold has one good point, it gives the yolk of the egg a good deep colour. Perhaps some of my readers may be able to give us their experience of feeding them to breeding stock.

#### SPROUTED OATS.

We heard a good deal about Sprouted Oats at one time, most of those who kept birds on the Intensive system started them, and they were certainly of great value when green stuff was short. I have seen a pen of intensively-kept Leghorns, which had no other green stuff, look as fresh and well as others on range. How are we to account for it? Take the analysis of samples of the grain sprouted and unsprouted:—

Unsprouted.		Sprouted.	
Albuminoids	11.5	Albuminoids	1.13
Carbohydrates	58.5	Carbohydrates and Fibre	29.55
Fats	5.2	Fats	1.20
Ash	8.0	Ash	1.63
Fibre	9.7	Moisture	70.00

Apparently the sprouted oats have lost considerably in value, and as was argued at the time, they had lost much of their mineral content, because they had no soil from which to derive it. We knew nothing of Vitamines in those days, but we now know that germinated seeds are fairly well off as to both the anti-neuritic factor Water Soluble "B," and the anti-scorbutic factor, Water Soluble "C." The latter is lost in the seed in the dry process, but is created anew during germination. It is lost, too, in the grasses when they become dry, so here we have a reason why our clover meals do not completely take the place of fresh, green food. Fresh uncooked cabbage and the swede are the best sources of supply, after them we must look to germinated cereals.

When cereals are germinated, the starch is turned into dextrine and sugar, and is more digestible, but the high percentage of moisture renders them less nutritious.

The method adopted is to soak the required amount of oats in luke-warm water for 24 hours, then spread them on a tray with a marginal board about 4in. deep, with a few holes bored in it to allow the water to drain off; they should be sprinkled twice a day with tepid water and stirred with a stick, otherwise they are apt to go mouldy. When spread out in the first place, they should not be more than an inch thick. It will, of course, be necessary that the sprouting should take place in a fairly warm room. One pound of oats will, when sprouted to four inches, be sufficient for 30 birds daily, but double that quantity would be better.



Now I am going to theorise a little for my own amusement, and perhaps for yours too. The old idea was, that by sprouting oats we were supplying our birds with the mineral salts necessary to their healthy existence. A glance at the analysis will reveal that so far from increasing the mineral salts we have reduced them by one-half. Formerly we were advised to allow the sprouts to reach the height of about four inches, and we talked a great deal about the "tender green foliage," and there was also some talk of a cheap source of food supply, "one bushel turned into four," without increased cost. Another glance at the analysis will show that is all nonsense, for 70 per cent. of the oats sprouted to four inches is moisture. We have now to turn to the Vitamine theory. Vitamine "C." is created anew in the process of germination. It has been found that when germination has taken place from 2-3 days, the anti-scorbutic factor is again acquired. That being the case, the most profitable time to feed sprouted oats is when they have germinated 2-3 days, and not wait until the tender green foliage appears. We shall have a much more nutritious feed at the 2-3 day stage, which will be easily fed to the birds as grain, and which will save us the awful labour of chopping up the tangled mass it becomes when it is about four inches high. Only those who have experienced this bother will understand what I mean, on a large plant it is an impossible task, but if fed as suggested, the sprouted oats might be freely used during that period of the year when green stuff is really short. It is absurd to delude ourselves with the idea, that by germinating grain we are getting a cheaper feed, or a more nutritious one, as a matter of fact in itself it is less nutritious, but it *probably supplies that factor which is necessary to the general bodily health, and so assists the remaining food to be used to better advantage.* To my novice readers I would say, clipped oats cannot be sprouted.

## A Short Account of some of the Known Infectious Diseases of Birds.

By Miss KNIGHT, M.B.

### II.

#### COCCIDIOSIS.

It is quite out of order to deal with this subject here—I ought not to take a disease caused by an animal parasite in the middle of an account of diseases caused by germs (vegetable parasites). My excuse for doing so is that a serious epidemic of coccidiosis is now beginning, and I want to warn you.

During the last few days I have had many chicks suffering with this disease, a few small, but mostly two months and over.

This disease is caused by an animal parasite called a Protogon. It occurs in the summer, between June and September.

The Epidemic of B.W.D. which occurred earlier in the year has now died down—to gain fresh strength

next spring on the farms of those who will not believe in it, of those who do not know they have it, and of those who for any other reason fail to take proper measures against it. In its place we have to face an epidemic of Coccidiosis, which is more difficult to treat. The Tablets which many of you have found effective in preventing the infection of healthy birds with B.W.D., Fowl Typhoid, Fowl Cholera, etc., apparently have no effect in preventing Coccidiosis.

#### Mode of Spread.—

- (1) By the water of pools, ponds, etc.
- (2) By infected food, also sand, mud, and other things taken as food.
- (3) By the droppings, etc., of small, wild birds.
- (4) By unwashed greenstuff, especially when grown in a damp place.
- (5) It has been said that eggs, laid by infected birds, have Coccidia on the shells and inside.

**Period of Incubation — Symptoms.** — Violent diarrhoea (usually of a greenish-yellow colour), listlessness and great thirst. Then excess of saliva is formed. There follows drowsiness, lack of appetite and a bluish colour of the comb. The droppings become slimy and are often mixed with blood. Death usually takes place in two to four days, but sometimes occurs suddenly. Occasionally the disease lasts two to four weeks, and then the birds become very thin.

**Post-Mortem Appearances.**—The intestinal tract is affected to a greater or less degree. There is acute catarrh or inflammation of the intestines. The contents are a dirty greyish-white, sometimes mixed with blood. The contents of the caeca (blind guts) are often hard and cheesy. On the lining membrane of the intestines are whitish nodules, the size of a millet seed. In very acute cases, especially in young chicks, these changes may be absent. Sometimes there are circular whitish patches in the liver.

**Diagnosis.**—This can be made only by finding Coccidia in the droppings or intestinal contents, when examined under the microscope.

**Prevention.**—Drinking water from a safe source only should be given; if it must be taken from a pond, river, etc., it should be boiled. Food should be stored in a clean, dry place, and should not be thrown on the ground. Green-food from a dry place only should be used. It is advisable to wash it. The netting should be fine enough to keep out small, wild birds. Eggs for incubation should be dipped into methylated spirit. When the disease is present, all corpses should be burnt, not buried. The house and run should be daily cleaned and disinfected, remembering that infection is spread by the droppings. After the epidemic is over, the house should be thoroughly cleaned and disinfected, and not used again for a year.

**Treatment.**—As the intestines are often inflamed and ulcerated, it is advisable to give them as little work to do as possible. For this reason, easily-digested soft food only, with plenty of sour milk, should be given. Medicines recommended are

which I intended to breed my cockerels. These pens I dubbed

**Red. White. Blue. Yellow.**

My intention was to select the best cockerel bred from the best hen in each pen and cross mate in the following year. This I did, retaining, of course, the original hens, as it would not be sound policy under this system to breed from pullets. So my mating was

**Rw. Wr. By. Yb.**

This explains my system. I have 4 groups which I can inter-mate, and yet the degree of relationship does not become closer after the first year; in fact, the degree of relationship does not trouble me, that is the last thing to be considered in line-breeding, one's whole attention must be concentrated on the individual. So far I have been successful, there are no phenomenal results to record, I have managed to increase the pen average to 176 per bird, but I hardly expect to effect a further improvement, for as far as I can discover, Line-breeding tends rather to the fixation of characters than to improvement. The most satisfactory feature is the health and vigor of the stock, this may be ascribed to the rigorous selection of the breeders rather than to the system itself. One must resist the temptation to select the high recorders, and to anyone who may feel inclined to test this system, I offer one piece of advice, "Don't be tempted to breed from any bird merely because it has a good egg record."

I should possibly have done better had my stock not been so mediocre to start with, but, on the contrary, had their records been higher, I might have fared worse. My breeders are selected from hens with winter records of from 40 to 50 eggs, these I find breed the best pullets, the cockerel breeders are from hens laying 50 to 60 eggs.

The stamina of my stock is good. The test of this is fertility, hatchability, rearability. I am well satisfied. It is infinitely superior to some of my neighbours, who each year send to a different breeder for males, on the plea that there will be no risk of in-breeding. While I do not lose sight of individual selection, I have nothing to fear, there is really little risk of this as the selection of some 40 birds each year is not arduous work. Of these potential cockerel breeders, fully 50 per cent. are rejected. They fail either in size of body or in size of egg, or their eggs are thin-shelled. There is very little difficulty with the pullet breeders, I have no difficulty in producing the two-ounce egg, they average slightly over that, but I am not aiming at anything bigger.

## DO IT NOW!

If your plant was burnt down, or damaged by a violent storm, or a fox killed some of your most valuable birds, or some were stolen, or died in transit (while in the Railway Companies' care) to or from a Show, or they were stolen or destroyed by fire while at the Show. How would you stand, Mr. Poultry Keeper? Are you one of the wise men who have made provision for such contingencies by taking out an Insurance Policy? If not, write to the Advertisement Manager, "Eggs," 94, Farncombe Street, London, S.E.16, for proposal forms, rates of insurance, etc., which he will be pleased to furnish free on request. We have made arrangements whereby our readers may effect insurance at Lloyds on their live stock and plant at the minimum of trouble and expense.

## National Poultry Institute List.

TO BE OR NOT TO BE.

The Members of S.P.B.A. and Readers of "Eggs."

June 14th, 1922.

Ladies and Gentlemen,—In the current issue will be found a list of subscriptions already received towards the £6,500 Poultry Keepers have to raise in order that the National Poultry Institute may be brought into being.

The list may be considered fairly satisfactory as far as the amount subscribed is concerned, but on the other hand it is not at all satisfactory as regards the number of subscribers, which only works out about one in every twenty members. We must do better than this, and I would rather have seen 4,000 members subscribing 1s. each than that 200 should have put up an equivalent sum.

We desire to show that Poultry Keepers really want what the Government is now good enough to offer them. The Industry has been demanding assistance from the Government for years, and it must now show willingness to avail itself of the really generous proposals that have been made.

I want to point out that the money must be raised quickly, and I hope every Member of the Association will contribute to the fund.

With our large and ever-increasing membership, it ought to be easily within the range of possibility for the S.P.B.A. to send in a list of at least £1,000. This amount split up among the members means only a few shillings a head, and should surely be forthcoming.

The importance and usefulness of our Association, and the lively sense of its Members of benefits likely to accrue, will be demonstrated once more if S.P.B.A. heads the list.

The Poultry Industry needs the help of scientists to solve the many problems which are presenting themselves, so that wastage may be avoided, production increased and disease prevented. The late Professor Huxley said, "Science is organised. Common sense and men of science are common men drilled in the way of Common Sense."

Feeling confident of your generous support.

I am,

Yours faithfully,

J. GERARD KITSON,

President.

## FIFTH LIST.

Brought forward ... £296 3s. 0d.

	s.	d.
H. Seymour ... ..	5	0
G. Denny ... ..	20	0
Miss Harrison-Bell ... ..	20	0
R. Robinson ... ..	10	0



# ABSURD PRICES in FENCING STAKES

OFFER OPEN ONLY TILL JULY 12th.

Approx. 2 x 1½. Pointed Ready for Driving, Penetrated and Bundled in Lots of 12.

ft. long, 5/-; 5 ft., 5/8; 5½ ft., 6/4; 6 ft., 7/-; 6½ ft., 7/8; 7 ft., 8/4; 7½ ft., 9/-; 8 ft., 9/8; 9 ft., 11/- per 12, sent Carriage Forward and for NETT CASH ONLY.

## THE "BEAT ALL" POULTRY HOUSE.

ILLUSTRATION IN COURSE OF PREPARATION.

those who are looking for CHEAP Houses, I have introduced the "BEAT ALL" to fulfill their wants. This house is made 6ft. long, 4ft wide, high front, 3ft. back, the size, when erected, guaranteed to cover 24 square feet, made of ½ matching, on 2 x 1 framing, entrance door with trap door, one up-and-down shutter, two perches, an ideal house for cockerels being kept for breeding purposes, pullets, small breeding pen, etc.

"BEAT ALL" WILL BE SENT CARRIAGE PAID, AND IS SUBJECT TO 5 PER CENT. ONLY TO M.S.P.B.A. PLEASE NOTE SIZE AND PRICE.

**£2 10 0 each; 3 for £7 7 0; 6 for £14 8 0; 12 for £28 10 0.**

THERE WAS NEVER SUCH VALUE OFFERED. ORDER BEFORE OFFER IS WITHDRAWN.



### The "X-L" SPRAY PUMP.

NEVER SPRAY,  
NEVER PAY!

IT  
PAYS TO SPRAY.

Now is the time to  
Overhaul your  
Poultry Houses,  
etc., etc.  
Also useful to  
Private Motorists.

Price 35/- each.

Carriage Paid.

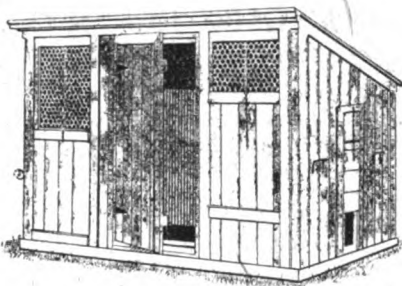
### VERMICIDE.

most powerful Killer of Vermin and all  
parasite life, a ground disinfectant for  
Stables, Brooders, Houses, etc., also  
Stables, Drains, Hospitals, etc.

ONCE USED, ALWAYS USED.

1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6;  
Gallon, 8/6.

Carriage Paid.



### THE "ORIGINAL" BARGAINETTE HOUSE

made of best 3in. T. and G. Matching, on  
stout planed framing.

6ft. long, 4ft. wide, 4ft. high, £3 2s. 0d.;  
Floor, 15s.; Felt Roof, 6s. 6d.; Penetrated,  
5s. 6d.; Three Outside Nests, 13s. 6d.; Bolts,  
3s. 6d.; if used for working one of my  
Hovers it would be better with glass in  
back, costing only 2s. 6d.

### FINE BISCUIT MEAL.

As used on my own farm. Splendid Egg  
Producer, and doubles itself in bulk.

24s. cwt., carriage paid.

5 cwt., 23s. cwt.

### BEST GALV. WIRE NETTING.

	12in.	24in.	36in.	48in.	60in.	72in.
1in.	9/-	17/2	24/5	32/7	41/7	48/9
1½in.	7/9	14/3	19/9	26/4	32/11	39/6
2in.	6/-	10/6	14/3	19/-	23/9	28/6
3in.	4/5	7/11	10/11	14/6	18/2	21/9

In Rolls of 50 yards.

Carriage Paid on £7 Orders.

### BEST ENGLISH POULTRY RINGS.

SPIRALS IN TEN COLOURS.  
FLAT BANDS IN FIFTEEN COLOURS.  
Also INTER-LOCKING ALUMINIUM  
RINGS.

ALL ONE PRICE.

	500	400	300	150	100	50	25
Day-Olds	10/-	8/-	6/-	3/-	2/-	1/3	/9
2 months	13/9	11/-	8/3	4/3	3/-	1/9	1/3
3 months	15/-	12/-	9/6	5/-	3/6	2/-	1/4
Leghorns	25/-	20/-	15/6	8/3	5/9	3/-	1/9
Wyandotte	26/-	21/-	16/6	8/9	6/3	3/3	2/-

### PENETRAS.

Penetras is not the ordinary so-called  
creosote, but contains a mixture quite  
different, and is one of the finest preserva-  
tives of wood ever put on the market.

1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal.  
40 gals. cask, £2. Cask charged.

All Carriage Forward.

I HAVE VACANCIES FOR TWO PUPILS ON MY POULTRY FARM. CORRESPONDENCE INVITED.

ALL MY LISTED GOODS CAN NOW BE PURCHASED ON THE DEFERRED PAYMENT SYSTEM THROUGH MESSRS. GRAVES, SHEFFIELD.

# C. A. SYDENHAM HANNAFORD, Hamworthy Junction, DORSET.

5 Per Cent. Discount to the S.P.B.A., with exception of Netting, Stakes, and Biscuit Meal.



## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### EARLY MOULTING.

Early moulting seems to be rather prevalent this year, and several readers have written to enquire the cause. I am afraid it is difficult to give an explanation. I have known it occur in previous years when we have had a sharp spell of very hot weather such as we experienced last month, and we must put it down entirely to those few hot days coming just as the flush of the laying season was over. I note the report of the North American Laying Test, the writer says:—

"One case of moulting has occurred in the last week—this is unusually early and may mean that moulting will take place throughout the flock earlier than is normal. Several American competitions show a decreased output in general, that is, output slightly below normal average, and as a consequence moulting may be earlier throughout this country. If this takes place, as it has done before, particularly one year in these competitions, egg output for the year is going below the average. On the other hand, it may be only a temporary interruption that is nothing more than a rest period.

So far poultry science has not arrived at the stage that can present this condition; in fact, science has not yet determined what causes rest periods, early moulting, and several other disruptive influences that affect seriously egg-production.

This, that or the other system of feeding, housing and surrounding may be claimed to influence egg-production—records are made in egg-laying competitions where feeding practices never change, records high and records low. Every poultryman has his own system of housing and feeding—egg-production can be profitable in numerous cases, each case widely different in systems followed and yet all equally profitable.

In these North American competitions world's records have been made, and in the same year these world's records, on the same system of feeding, housing and conditions, such amazing low records have been made that they were almost unbelievable, birds selected for heavy production producing from one or two eggs up to birds laying around twenty."

The concluding sentence is noteworthy. How little the handling system tells us of a bird's ability to lay, when "birds selected for heavy egg-production produce from one or two eggs to birds laying up to about twenty."

### UTILITY SHOWS.

I have received the following letter from Mr. Graham Thompson:—

"Sir,—It is somewhat alarming to read ('Eggs,' page 327, 21-6-22) that 'the Council were disposed to consider the matter favourably.'

Presumably, the First Annual Young Stock Show of the London and District Poultry Association is to be another of the (so-called) Utility Shows, and I trust the time is far distant when the S.P.B.A. lends any support to affairs of this kind. Your own opinions, Sir, are well known, and I look to you to carry on the work of educating the public in the need for scientifically bred-to-lay stock. 'Eggs' is the best Poultry Journal and potentially the most influential, but 'Eggs'—like all good things—is appreciated most by those who already know a thing or two.

It is as important, in my view, to protect an un-instructed public from affairs of this kind as it is to keep a watchful eye on dealers of the type mentioned on page 326.

I do not wish to repeat any of the points I dealt with in my letter in 'Eggs' of October 19th, 1921, but I will mention two points, which I did not refer to then.

(1) That a world-famous breeder stated in my hearing at the Westminster Show that the exhibition was useless (he has since judged a utility show himself). (2) An exhibitor (also widely known) told me, in his opinion, the show had no value whatever. This man still shows (and wins), and I suppose he will continue to do so until everyone is of the same opinion as himself.

From the nature of the case a Poultry Judge cannot know the breeders of the birds he is handling, he does not know anything of the origin from a breeding standpoint of the birds, and therefore if the S.P.B.A. recognises these exhibitions by granting awards, it will place us in the absurd position of granting a certificate of merit to a bird which may prove useless as a breeder—and we are a Breeders' Association.

At the risk of flogging a horse already dead, may I mention your often-repeated statement that some birds actually transmit bad hatchability. The Finger-Fumbling Fraternity make some extraordinary claims, but can they say that they can pick out this type at a 'Young Stock Show.'"

Mr. Thompson raises some important points in his letter, nevertheless I think he may feel assured that the Council do not intend to commit themselves to any policy which will lead to the encouragement of utility shows. It may be said that they are doing so. I do not want to quibble, personally I am strongly opposed to utility shows, whether the score-card is used or not their educational value, in my opinion, is negligible, and I do want to enter a most emphatic protest here against what is becoming an increasing practice and I consider a most dangerous and unfair one. A certain breeder was written to for a male bird. He quoted four guineas, and in place of a pedigree sent a score-card, the bird was purchased at a price which I consider, after seeing it, was double its value, and I would not have given a penny for it myself as it had no pedigree. We may say most emphatically that no handling test will give us the breeding value of a bird, the most it can do is to show us her defects, and I do urge on my readers not to be inveigled into paying high prices for birds simply because they have won at



Trade for milling offals is firm, and prices have a dearer tendency. Meals are also inclined to harden in value.

**MILLERS' OFFALS.**—Bran (British): Bristol, £7 10s.; Hull, £6 7s.; Liverpool, £6 10s.; London, £6 15s. Broad Bran: Hull, £7 17s.; London, £8 10s. Fine Middlings (Imported): London, £9 15s. Coarse Middlings (British): Bristol, £9 7s.; Hull, £8 7s.; Liverpool, £8 5s.; London, £8 17s. Pollards (Imported): Bristol, £7 15s.; Hull, £7 5s.; Liverpool, £7 5s.; London, £7 17s. Rice Bran: Bristol, £8; Liverpool, £7 10s.; London, £7 7s. MEAL.—Barley Meal: Bristol, £11; Hull, £10 10s.; London, £11 5s. Maize Meal: Bristol, £9 15s.; Hull, £9 5s.; Liverpool, £8 17s. Maize Meal (S. African): Hull, £7 17s.; Liverpool, £7 17s.; London, £8. Maize Germ Meal: Bristol, £9 5s.; Hull, £8 5s.; London, £8 12s. Maize Gluten Feed: London, £8 17s.

Eggs are in short supply and are steadily advancing in price. Week-end prices per 120: English New-Laid, 16s., 18s.; Dutch all brown, 19s., 21s.; Danish, 18lb., 19s., 20s.; Irish, 16s., 17s.

#### EGGS.

Per Doz.—Ashford: First, 2s. 1d.; Second, 2s. 0d. Birmingham: First, 1s. 8d.; Second, 1s. 7d. Carlisle: First, 1s. 10d. Donbigh: First, 2s. 0d.; Second, 1s. 10d. Derby: First, 1s. 8d. Dorchester: First, 1s. 8d. Exeter: First, 2s. 0d.; Second, 1s. 10d. Hereford: First, 1s. 9d. Hull: First, 1s. 6d. Ipswich: First, 2s. 0d.; Second, 1s. 10d. King's Lynn: First, 1s. 9d. Lincoln: First, 1s. 9d. Llandilo: First, 1s. 6d. Newport (Mon.): First, 1s. 8d.; Second, 1s. 6d. Norwich: First, 1s. 9d. Penzance: First, 1s. 4d.; Second, 1s. 3d. Salisbury: First, 1s. 10d.; Second, 1s. 9d. Shrewsbury: First, 2s. 0d.; Second, 1s. 9d. Skipton: First, 1s. 6d. Taunton: First, 1s. 6d. Truro: First, 1s. 5d. York: First, 1s. 8d.; Second, 1s. 7d.

#### FOWLS.

Per lb.—Birmingham: First, 2s. 0d.; Second, 1s. 1d. Derby: First, 1s. 4d.; Second, 9d. Exeter: First, 2s. 0d. Hereford: First, 1s. 7d.; Second, 1s. 0d. Ipswich: First, \*5s. 6d.; Second, \*3s. 6d. Lincoln: First, \*4s. 6d.; Second, \*3s. 6d. Llandilo: First, 2s. 4d.; Second, 2s. 2d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 2s. 0d.; Second, 1s. 9d. Shrewsbury: First, 1s. 6d.; Second, 1s. 3d. Truro: First, 1s. 8d. York: First, \*6s. 0d.; Second, \*5s. 0d.

#### DUCKS.

Per lb.—Birmingham: First, 2s. 0d.; Second, 1s. 9d. Exeter: First, 2s. 6d. Second, 2s. 3d. Hereford: First, 1s. 8d. Llandilo: First, \*s. 4d. Shrewsbury: First, \*9s. 0d.; Second, \*8s. 0d.

\* Per Head.

### APPLICANTS FOR MEMBERSHIP.

Weldhen, Mrs. K., Norton Glebe, Ongar, Essex.  
Stratton, B. M., Lenham Heath, Lenham, Maidstone.  
Bartlett, C. H., 40, St. John's Crescent, Sandown, I.O.W.  
Seymour, H., 9, Castle View Terrace, Boveney, Nr. Windsor.  
Beadsell, Mrs. J., 10, Cable Street, Forbury.  
Pybus, H., The Priory P.F., Cottingham, E. Yorks.  
Williams, Capt. G. S., Poppleton Villa, Yorks.  
Whitley, Capt. L. G. M., Mount Pleasant, Corfe Mullen, Dorset.  
Goult, A. C., Olicana Farm, Hawkwell, Hockley.  
Rowntree, P., 11, Hammersmith Terrace, London, W.6.  
Stephens, P., The Beeches, Week St. Mary, Holsworthy, N. Devon.  
Pratt, W., Etherley House, Rowlands Gill, Co. Durham.  
Clarke, W., Kinder P.F., Hayfield, Nr. Stockport.  
Gell, D. A., Nadeny Farm, Norden, Rochdale.  
Bancroft, G., Knowsley Farm, Thornton, Lancs.  
Watson, T., 16, Dean Terrace, Edinburgh.  
Johnson, G. C., Redbank, Bamford, Nr. Sheffield.  
Moseley, L. D., Staddon P.F., Appledore, Devon.  
Corlett, H. S., The Groves, Union Mills, I.O.M.  
Heddon, Miss E. L., Crawley, Milton Damerel, Brandis Corner, Devon.  
Grant, P., Wester Duddingston, Portobello, Edinburgh.  
Monod, Dr. F., 15, Rue Lord Byron, Paris.  
Lucas, L., Broadmead P.F., Burstow, Horley.  
Poole, H. W., Uplands, Ilminster, Somerset.

## Answers to Queries.

By the EDITOR.

#### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

#### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

#### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

S. S. (Talke). It is sheer fraud to sell as Sussex Ground Oats the No. 2 sample at 22s. per cwt. They are nothing but a coarsely-ground oat worth about 14s. a cwt; there is an excessive amount of husk. The other sample at 25s. is much better, but the price is extortionate. Your flock average was certainly good last year. You are eligible for membership of the S.P.B.A.

D. A. F. (Aldershot). If you intend wet mash feeding, you must not use so much Bran, reduce it to one part, and increase the Middlings by two; the parts should be by weight. Yes, feeding three times a day is sufficient when they are twelve weeks' old. It makes no great difference whether you give the mash morning or evening.

S. J. L. (Derby). It is very difficult to stop feather plucking, which is a vice generally due to idleness. If you cannot give the birds complete liberty, which is the most simple way of curing it, the only thing to do is to smear the feathers with some noxious compound, at the same time keep them very active, and supply plenty of fresh green food. A mixture of lard and bitter aloes is as effective as anything. (2) Plump Clipped Oats, Wheat and Kibbled Maize, one part each.

E. E. P. (Kilkenny). I am answering this through "Eggs," as it is always more convenient to me to do so when questions are not actually urgent. I wish all members of the S.P.B.A. would do as you do, and give me the option. (1) From what tests have been made it would appear that Dari is equally as good as Wheat for egg production, but I don't like it for chicks. I am glad to hear that you are trying to form a branch

C. M. G. (Churchill). This is an average sample of ground oats, fair value at the price, but I have seen much better.

### DUCK QUERY.

A. M. (Port Isaac). I quote a letter from a correspondent because it may help other beginners to realise the importance of recording their ducks either by use of trap-nests or by other means. If no care is taken to see which ducks are laying—or still more to the point—which are not laying, then one or more birds may be fed for months or even years without the owner getting a single egg in return. My correspondent says: "The ducks started laying in August and have done well ever since. Unfortunately I did not trap-nest until April. Since then I have discovered that Blue-ring has not laid a single egg. She is a nice-looking bird, and I feel sorry to get rid of her. Do you think it likely that she would have taken such a long rest if she had been laying last winter? One of the ducks which has scarcely missed a single day since April 1st has a misformed upper beak—it is too short—she is a well-formed bird otherwise; I have not used eggs for hatching as I feared the disease might be inherited in her progeny—would this be so?"

The records in the last 99 days for the five ducks are as follows—98, 80, 93, 77, and blue-ring 0.

Please give me the address of the Secretary of the Utility Duck Club; I found the year book most useful."

This letter speaks for itself in the warning it conveys. No, A. M., I do not suppose that blue ring has ever laid an egg in her life, or that she ever will do so, the only thing you can do is to let her go with the green peas. For some reason or other she is barren. The other ducks have done very nicely, and you should rear some good stock from them next season. In the meantime let them live as naturally as possible this winter, feed sparingly—give little or no fish meal, chiefly corn diet; that is, do not attempt to get eggs from them until about mid-December, begin gradually to improve the feed, and by end of January you will be getting eggs which will hatch well and produce first-class ducklings. Of course, get the best drake you can. He should be the son of a duck that has laid about 250 eggs in her first year. Your own will have averaged about 230. You need not hesitate to breed from the duck with the misformed upper bill, this was probably caused by some little mishap during incubation. Mr. Barnes Reeve is the Hon. Sec. of the U.D.C., his address is Calverton Manor, Stony Stratford, Bucks.

### POST-MORTEMS.

"Owls." Your bird had small worms in her intestines. Her liver was yellow and much diseased. The head, neck and wattle were quite blue, and the wattle much swollen. I had never seen a case like

it before. In the R. wattle there was a large cavity containing dirty liquid and lined with a whitish membrane, like that of avian diphtheria. This was continuous with a cavity, lined with similar membrane, in the front of the neck, and extending into the space below the L. eye. The L. wattle was thick and solid, with a whitish interior. There was marked congestion of the windpipe. The small spot of canker had probably been of longer duration than you know of. It seems to me probable that the disease had extended from it into the wattle and spaces. I wish you had sent the bird alive. I should like to hear from you about the treatment you told me of some time ago.

A. Greenwood. As you did not say in which paper the report was to be put, I don't know whether this is the right one. The hen died from internal haemorrhage. Her liver was very much diseased, being too soft to hold together. The result of this was considerable haemorrhage from its blood vessels. How do you feed?

Fir Tree. The chicken had Coccidiosis. As I have sent in an article to "Eggs" on the subject, I hope it will be published by the time you see this. I need not say more.

B. Woolacott. The pullet had a very bad cold in the head. The wrappings were soaked with her nasal discharge. She had a ruptured yolk sac and an enormous spleen—the other organs were healthy.

E. Till. Your hen had congestion of liver, spleen and kidneys. Both liver and kidneys were much enlarged. If all other birds be well, I think this one must have had a chill. You had better look inside the mouths of the others, as there was a small patch, which might have been avian diphtheria, inside the mouth of this one.

W. E. Your hen had broken a yolk sac internally. She had also peritonitis and congestion of liver and kidney. If you have lost others, please let me know? If not, the death was probably due to the accident of breaking the yolk sac.

P. M. Smith. Your bird died as the result of rupturing a yolk sac internally. This caused peritonitis.

D. K. Your hen had internal gout. Her kidneys were blocked, and there was a deposit of urates on her organs. She had also marked congestion of ovary, gizzard, etc. Please send me full particulars of your feeding. If you give too much animal food, that would account for the deaths and this bird's condition. If there be no fault in that way, read the report (p. 12) on Fowl Plague, as in some ways the condition of your bird suggested that, although there was nothing very definite.



## Correspondence.

To the Editor "Eggs."

Dear Mr. Newman,—Your editorials of June 7th and 14th raise points of the greatest interest, and we are all very much indebted to you for the very precise instructions on chick feeding, which make it impossible for the merest tyro to go wrong. There are, however, one or two matters in the second article on which further information appears to be desirable. On page 313 of "Eggs" it is stated, that the special diet was continued to the age of three weeks—latterly for one day a week only, while on page 314 it was continued to "present date."

(2) At what time was dried milk—presumably separated—substituted for Casein and Secwa, and in what quantity? As Secwa is virtually Dried Separated Milk, less Casein, presumably 45 grammes, the sum of the weights of Casein and Secwa were used. If this were so, then the albuminoid ratio of the special diet works out approximately  $12\frac{1}{2}$ , compared with 15 that of the dry mash for young chicks (4 parts Bran to 1 of Stock), using  $1\frac{1}{2}$  measures of Dried Milk instead of 1 measure of Meat Meal, as recommended in the Editorial of June 7th.

No wonder the combs and wattles were bright red. It would be interesting to know whether the pullets and cockerels prove to be precocious.

I am a great advocate of Dried Separated Milk, and have used it consistently since January, with the most satisfactory results. For chicks of two months' old and over, I find 10 per cent. by weight not too much. When prepared by the Spray process, none of the Vitamines appear to be destroyed. However, a liberal allowance of greenstuff has also been given. The anti-scorbutic factor can be very efficiently supplied to early chicks by the use of raw swedes, incidentally much cheaper than oranges or lemons. Good swedes are, however, difficult to get after the end of March.

To refer once more to the June 7th editorial, the first mash is given in measures, all the others and the grain mixtures in weight. The latter seems much the more scientific. Different samples vary so much, especially in the case of bran. I have just made some careful weighings of one quart of each of the following. The various meals were good average samples. I append them in the hope that they may be of use to your readers:—

- 1 quart of Broad Bran weighs 6 ozs.
- 1 " " Ordinary Bran weighs 8 ozs.
- 1 " " Middlings weighs 17 ozs.
- 1 " " S.G. Oats weighs 16 ozs.
- 1 " " Maize Germ weighs 22 ozs.
- 1 " " Meat Meal weighs 25 ozs.
- 1 " " Fish Meal weighs  $27\frac{1}{2}$  ozs.
- 1 " " Dried Separated Milk weighs 10 ozs.

It will be seen how very light the last-named is compared with meat or fish meal.

F. W. HARDY.

28, Castlebar Park,  
Ealing, W.5.

We are afraid we did not make it clear that the experiment referred only to the nine birds, the weights of which were given; these had no dried milk, but the Casein and Secwa, the dried milk was given to the chicks on the Wellingham Farm.—(Editor.)

### THE BAD SEASON.

To the Editor "Eggs."

Dear Sir,—The thought cannot be suppressed, when scanning the list of contributors, 'The many are ever ready to benefit by the generosity of the few.' (Mr. Barford, 'Eggs,' June 21st.) This is all too true. Are we going to let this opportunity pass? We have been shouting for the Institute for ten years; the Government have made us a very generous offer, the response to the appeal for support from the National Poultry Council is painfully meagre. In conversation with one of the members of the Council last week, he mentioned that he was over £100 out of pocket, his travelling expenses, donations, etc., in connection with the activities of the Council, others had spent even more, not one of them grudged either the money or the time, but all are disappointed at the want of interest shown and support given in what all believe is the great necessity for the future welfare of the Industry. The humiliation which will be felt by every member of the Council should they be compelled to inform the Ministry they have failed to raise the money, one can imagine. It is claimed that the Annual value of the Industry is greater than that of the wheat crop. Will it fail to raise a paltry £6,500? If it does, it will remain, and deserve to remain—The Cinderella of Agriculture.

Yours faithfully,

"ONE WHO KNOWS."

### PROPOSED LA BRESSE CLUB.

To the Editor "Eggs."

Dear Mr. Newman,—There seems to be a manifest desire to form a club for La Bresse to advance the interests of this profitable breed.

Will readers who wish to become members please write to Dr. Hutley, Weybread House, Harleston, Norfolk, who has kindly promised to be Secretary for the time being.

A meeting will be held at one of the early shows—most probably the Dairy—to elect officers, make rules, etc.

Further particulars will be published in due course.

Yours sincerely,

(MRS.) ONSLOW PIERCY.

# BREEDERS' SPECIALITIES.

## ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

ROUGHTON via NORWICH.

## E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S. and N.U.P.S.

Breeder of the Highest Class Pedigree  
Utility Poultry.

"NEASELANDS," HAYWARDS HEATH, SUSSEX.

Phone—Haywards Heath, 82.

White Leghorns.  
White Wyandottes.  
Rhode Island Reds, S.C.

Light Sussex.  
Mendals, Black.  
Black Leghorns.

## MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,

Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I. Reds (s.c.), White Leghorns.

White Wyandottes.

Black Leghorns.

## F. J. HOUGHTON,

IVANHOE POULTRY FARM, FRITH END,  
Near FARNHAM.

F. J. HOUGHTON wishes to point out  
that he is unable to fulfil any more orders  
owing to the Extension of his Farm this  
season. But asks prospective customers to  
place their orders Now for White Leghorn  
Sittings, Day-Olds, and Pullets for next  
season, and thus avoid disappointment.

## Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.,

NYMPT, BUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

SEND ALONG YOUR ORDER.

A MOST

PROFITABLE INVESTMENT.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."

## WHITE WYANDOTTES.

L. WILLIAMS,  
Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

## PEDIGREE WHITE LEGHORNS ONLY.

WALTER PROCTOR,

Hares Hill Road White Leghorn Farm,  
HEYWOOD, LANCOS.

200 1920 and 1921 hatched Birds, laying:  
7s. 10s. 6d. and 12s. 6d. each.

Catalogue Free.

## F. C. TOMLINSON, M.S.P.B.A.,

Knott Hall Poultry Farm, Holpringham,  
Sleaford.

Breeder of High-Class Utility Stock.

White Wyandottes. Anconas.  
White Leghorns. Rhode I. Reds.  
and White Runner Ducks.

Sittings from 7s. 6d. Day-Olds from 15s.  
Mating List Free.

## Mrs. MUMFORD,

White Leghorns,  
Rhode Island Reds,  
Light Sussex.

Greenfield Poultry Farm,  
Liphook, Hants.

## SOUTH HANTS

Poultry Farm ROMSEY.

R. I. REDS,  
W. WYANDOTTES,  
W. LEGHORNS.

Gold and Silver Medals and Certificates  
at Harper-Adams.

MAJOR E. P. WIDDICOMBE.

S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-Old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

EVERY MEMBER OF THE

S.P.B.A.

SHOULD TAKE ONE OF  
THESE SPACES.

## FRAMLINGHAM.

Pullets and Cockerels, January and  
February, March, April, 1922.  
White Wyandottes, hatched from proved  
two and three-year-old stock (Tom Bar-  
ron's strain). Records of four best third  
year hens, Nov., 1921, to end Jan., 1922,  
68-67-66-61. Their best April, 1921, daughters  
over same period, 81-77-76-76. White Leg-  
horns. Pen of 48 second year birds pro-  
duced from Nov., 1921, to end of Feb., 1922.  
3,104 eggs. Prices from 10s. 6d. each.  
Manager, "Broadwater," Framlingham.

## R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinehurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

Stock Birds, Day-old Chicks, Hatching Eggs,  
etc. High-Class Utility Stock.  
White Wyandottes, Light Sussex.  
Croad Langshans. R.I. Reds.  
White Leghorns. Black Leghorns.  
White Runner Ducks.

H. W. HONEY,  
S.P.B.A., N.U.P.S., P.C., Etc.  
ALTON, HANTS.

Manager, Tottenham Laying Test.  
Hon. Sec., Alton and District U.P.S.

## K. E. FIELD-HART

### WHITE LEGHORNS

Breeding Hens for Sale in Sept.

THE LIMBERLOST,  
HEATHFIELD, SUSSEX.

Eggs for Sitting.

Day-Old Chicks,

Size and Stamina.

Send for Catalogue and book your order.

MRS. CHARLES CARTWRIGHT,  
The Welland Valley Poultry Farm,  
SEATON, near UPPINGHAM.

IF IT IS ADVERTISED IN

"EGGS"

You can depend on it.

ONE OF THESE SPACES  
COSTS:

13 weeks, 5s. 6d. per insertion  
26 " 5s. 0d. " "  
52 " 4s. 6d. " "

(Not less than 13 accepted).



ITTINGS and Felts for egg boxes, any made; state wants; Egg or Chick tea (cheap). Lists free.—Write, Hodges, Baldwin Terrace, Peter Street, Islington, London.

CATCHERY EQUIPMENT SALE of 1,800 Stanworth Incubator, 120-egg Pearson's Incubators, splendid hatchers, several brooders; 50, 100, 250, 500, 1000 chicks, chick boxes, etc.—Particulars (stamp only). J. Hughes, Beaufort Drive, Wallasey.

DUCKS AND DRAKES.

KHAKI-CAMPBELL Duck Eggs; 50, 30s.; 1, 55s., carriage paid. Capt. Long, Leslie Thompson strain, bought direct.—Hughes, Beaufort Drive, Wallasey.

For Sale.—100 Fawn and White INDIAN UNNER Ducks, bred from pen of ducks supplied by Rev. Seymour Shaw, which had flock average of 189 eggs each in their first season. Above Ducks all hatched between April and July, 1921, and have been laying well since January, 1922. Price 6d. each, £50 for the lot.—Biddell, Ragborough, Braunston, Rugby.

DUCKLINGS.

KHAKI-CAMPBELL Ducklings; 18s., eggs doz.; Pettiphar's and Mrs. Campbell's rect.—C. Robinson, Grateley, Andover, anty.

RABBITS.

Lester Spurgeon, Wistler's Wood, Woldingham, Surrey, breeder, pedigree giant blue Beverens. Youngsters for sale.

PIGEONS.

UTILITY PIGEONS.—Several pairs Monains, large table birds; related to Bingley all prize winners 20s. to 30s. pair.—Fidler, Lechill, Wimborne.

PARTNERSHIP.

As Specialist in Commercial Poultry Farm, Estimates, Planning and Establishment, President Branch, N.U.P.S.; Vice-President, Fanciers' Society, I am prepared to consider Partnership with Lady or Gentleman on mutual terms. References exchanged. — Box "Eggs," 94, Farncombe Street, London, S.E.16.

PARTNER, active, with £600 to £700. Wanted, to develop Small Poultry Farm, Kent, 18 miles from London; 10 acres.—Box 99, "Eggs," 94, Farncombe Street, London, S.E.16.

To Approved Applicant, with over £1,000 available, Working Partnership is offered in Golden Cross Poultry Farm; real workers only considered; experience not essential.—Particulars, apply, H. Brooksbank, Hough Green, Widnes.

PUPILS.

Vacancy occurs on Commercial Poultry Farm in Lincolnshire for Pupil. Thorough and practical tuition in exchange for services. No premium required.—Particulars, Box 92, "Eggs," 94, Farncombe Street, London, S.E.16.

Vacancy for Pupil (Youth, 16 to 20) on up-to-date Utility Poultry and Vegetable Farm; practical training, all branches taught; no premium; refined home, six miles from St. Heliers, Jersey.—"Ticco," c.o. "Eggs," 94, Farncombe Street, London, S.E.16.

Vacancy at once for Girl or Boy Pupil; no premium; practical experience.—Apply, Miss D. Hasler, Little House Poultry Farm, Frinton-on-Sea.

Lady and Gentleman, young, married, willing to give services, Poultry Farm, in Exchange for experience, with view starting farm or partnership later. — Box 103, "Eggs," 94, Farncombe Street, London, S.E.16.

PUPILS received. Personal tuition in Utility Poultry Farming; no fees. — St. James's Poultry Farm, Brackley.

MISCELLANEOUS.

SUSSEX FOWLS.—Mrs. M. A. Grant, Westlands, Horley, Breeder, Exhibitor, Exporter all varieties. Winners at all principal shows. Exhibition with best utility qualities a speciality.

WHITE WYANDOTTE Cockerels, March hatched, free grass run; healthy strong birds from Cam's good laying strains. Best, 15s. each; Seconds, 10s. 6d. each. — Godfrey, Abinger Hammer, Dorking, Surrey.

PAYING GUEST.

RETIRED ENGINEER Wants Comfortable home, healthy locality, with lady, having house and land, interested in fruit, poultry, bees, etc.; will pay part as paying guest and assist in management, with ultimate view to partnership.—Box 95, "Eggs," 94, Farncombe Street, London, S.E.16.

SITUATIONS VACANT.

WANTED, Experienced Manager (Man or Woman), to take complete charge of poultry department in a co-operative experiment likely to interest educated people concerned with the solution of our social problems. Knowledge, initiative and organising ability essential. Further particulars upon application. — B. H. Nixon, Middlecot, Quarley, near Andover.

WANTED.

PULLETS.

February and March WHITE WYANDOTTE Pullets Wanted. Full particulars.—Box 96, "Eggs," 94, Farncombe Street, London, S.E.16.

COCKERELS.

Wanted 18 LIGHT SUSSEX Utility Cockerels, early March hatched.—Particulars, Preston, S.P.B.A., Wildhern, Andover.

SITUATIONS WANTED.

Public School Man (married) Requires Poultry Managership on small or medium-sized farm; high-class utility stock essential. Fully experienced.—Full particulars to Box 104, "Eggs," 94, Farncombe Street, London, S.E.16.

Gentleman, farming experience, some knowledge poultry, offers Services on Poultry Farm in Exchange for board and further experience; worker. — Box 102, "Eggs," 94, Farncombe Street, London, S.E.16.

AGENTS.

John Hanson and Sons, Argyll Mills, Liverpool, are open to appoint a few Agents for the Sale of their Renowned "UTILITY" Poultry Feeding Specialities. Applicants must be Members, S.P.B.A., or equivalent standing.

PALMER'S PURE FISH MEAL. As used by the Ministry of Agriculture, and also the "Daily Mail," N.U.P.S. Bentley, Harper-Adams, and Munster Laying Competitions.

Dear Sir,—You will be interested to know that the Netts Laying Test egg yield has now reached over 11,000 eggs, and we are sure to exceed 12,000 for the six months, or a flock average of 100 eggs per bird during the six winter months, on a high exposed situation, facing north, on clay. This says a lot for the type of layer bred in Netts, and "also for your Foods, which they are fed on. Yours faithfully, J. A. CASEBY, Poultry Instructor, Notts County Council.

£16 per ton, £8 2s. 6d. per ½ ton, £4 2s. 6d. per ¼ ton. Carriage forward from Hull. 23s. per cwt., 12s. 6d. per ½ cwt. 7s. per ¼ cwt., carriage paid. FISH GRAINS THE SAME PRICE. CHICK FOODS BISCUIT MEALS LAYING MEAL WAFER MEAL SUSSEX GROUND OATS PURE TONIC SPICE

Fish Meal or Fish Grains 23/- per cwt. Carriage paid England and Wales, and to ports. FLINT COCKLE LIMPET OYSTER PURE TONIC SPICE OYSTER and MIXED SHELL.

GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY.

## AFTER ALL,

if you require is Plain, Wholesome, nutritious Foods, which will give the maximum profit with the minimum outlay.

HERE YOU ARE, THEN!

	per cwt.	s. d.
bled Maize	12	0
eat	16	0
ped and Screened Oats	14	0
ley Meal	12	0
ze Meal	10	6
rps (Splendid Quality)	10	6
ad Bran	9	6
ldings	12	0
in Meal	14	0
ize Germ Meal	12	0
ize Gluten Feed	12	0
ultry Mash (Newman)	15	0
ick Mash (with Bran)	14	0
ick Mash (without Bran)	18	0
iked Maize	14	0
icult Meal (Graded)	25	0
icult Powder	20	0
ster Shell	8	0
nestone Grit	3	6

Bags free, F.O.R.

so Clover Meal, Fish or Meat Meals, Biscolla, Maize Flour, Duck Meal, Dried Peat, Peat Moss, Charcoal, Izal Powder, Fluid, Wire Netting, Felts, Drinking and Feeding Troughs, etc.

Write or 'Phone. 'Phone 51.

**RANK SHEARN & CO., LTD.,**  
**MIDSOMER, NORTON, SOM.**

**THE AUTO-SPRING NEST FRONT**

Set instantly with one hand, for trapping or fixed open. Adjustable for any breed. Clear entrance, and quiet, reliable action.

Sample, 4s. 3d.; 3 for 11s. 6d.; 12 for 42s. All Carriage Paid.

REV. N. BURGESS,  
Knighton-on-Teme,  
Tenbury, Worcs.

Prov. Patent.

### BARNVELDER FOWLS.

am selling every day with great success this popular fowl, also Chicks of all ages and eggs.

on request I will quote prices delivered free and send testimonials from satisfied customers. Also various kinds of Swans, Peafowl, Pheasants, Waterfowl, Cormorants, Herons, Spoonbills, Seals, Herons, etc. Price List on receipt of three penny stamps for postage; 3d. stamp to Holland.

**G. VAN HECK,**

129a, Amsteldyk, Amsterdam, Holland.

### FOR SALE.

ROOM REQUIRED FOR YOUNG STOCK.

One Pen W. Runners (four Ducks, one Drake), Direct, Taylor's; 45s.  
Three April, 1922, Ducks, 8s. 6d. each.  
10 W. Leghorn, April, 1921, Pullets, 10s. each, £14 the lot. (Adams and Linkie).  
One Pen (Seven 1920 W. Leghorn Hens, one cockerel), 60s. Frank Snowden-Barron).  
Twenty W. Wyandottes, March, 1921, Pullets, 8s. 6d. each (Barron's), £8 the lot.  
Thirty March, 1922, W. Leghorn Pullets, 12s. 6d.  
All Carriage Paid.

**HARRISON, Claremont Poultry Farm,**  
**WEST BURTON, YORKS.**



# FREE

## This Latest Book on

# Poultry Keeping

This book describes the remarkable results now being obtained by thousands of poultry keepers in town and country who have adopted the Ful-O-Pep way of Poultry Feeding.

We offer you a copy of the book FREE—because we know you have only to read the facts to decide to profit by the Ful-O-Pep way. A few minutes' reading will tell you how

### The Ful-O-Pep way—

**Saves 75% of the Poultry Keeper's time; Enables the birds, both young and old, to feed themselves without the possibility of over-eating; Assures a greatly prolonged laying period, many more eggs, and healthier birds; Eliminates chick losses, bowel troubles, and all cost of greenstuff.**

The Ful-O-Pep way is the result of years of scientific research by the world's greatest cereal experts. Send Coupon for Ful-O-Pep Poultry Guide and Calendar, and you will also be entered as a member of our Advice Bureau, entitling you at all times to answers and advice, free of charge, on any difficulty you may have with your poultry.

## SEND THIS COUPON TO-DAY

**QUAKER OATS, Ltd.,**

**Poultry Food Dept. P., 11, Finsbury Square, London, E.C.2.**

Please send me free copy of your Ful-O-Pep Poultry Guide and Calendar, and enrol me as a member of your Free Advice Bureau.

Name ..... (Please write very clearly)

Full Address .....

F.P.2 ..... "Eggs" 5/7/22

THE FUL-O-PEP WAY MAKES POULTRY PAY

# FUL-O-PEP

## POULTRY FEEDS



## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).

**DRIED BUTTERMILK - 20/- per cwt.**

We are also able to offer a limited quantity of

### SWEETENED CONDENSED MILK

(Invaluable for Poultry, Pigs, Calves, etc.) at the low price of

**8/- per Case (48 fourteen oz. tins in a case).**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

## COCKS and COCKERELS.

Awarded Two First Prizes Crystal Palace, 1921.

Exceptional Opportunity to secure strong, Northern-bred 1922 Utility Cockerels, many from very highly pedigreed sires, in the following varieties—Anconas, White Leghorns, Rhode Island Reds, Light Sussex, and White Wyandottes. 7s. 6d., 10s., and 15s. each, carriage paid, according to age and variety.

**R. SCOTT MILLER, M.S.P.B.A.,**  
Cyldeneuk Poultry Farm, Uddingston,  
Glasgow.



## The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

## W. A. BAINBRIDGE,

Keyneston Manor Poultry Farm,  
BLANDFORD.

White Wyandottes. Rhode Island Reds (S.c.)  
Light Sussex.

Sittings of first-grade eggs from L2 birds, mated to Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS.** Day-old Chicks. Cockerels from large egg, high record L2 Hens.



**The World's foremost  
Poultry-breeders feed  
Biscuit Meal every day  
to every chick**

Notably, Messrs. Adams and Linkie, Tom Barron, T. W. Toovey, R. H. Berney, M.A., Rowland Cooke, Simon Hunter, Rev. Ohas. Birkett, Rev. E. Lewis Jones, Mrs. A. J. Pain, Miss Harrison Bell, Messrs. Priest and Shaw, Mr. Smith Biddihough, Mr. T. Fletcher Hearnshaw, Mr. Arthur Snowden, Messrs. Snowden Brothers, Mr. Arthur Stevenson. These are in business for profit, and they know that it pays.

Here is Spratt's way of feeding which thousands of successful poultry-keepers are following to-day.

During the first thirty hours nothing but clean water and grit.

**DURING THE FIRST 14 DAYS.** Five feeds each day. Two hours between each, and in this order: Soft, dry, soft, dry, dry.

**THIRD TO SIXTH WEEK.** Four feeds each day. Three hours between each, and in this order: Soft, dry, soft, dry.

Spratt's Chicken (Biscuit) Meal is the soft food. Spratt's Chikko (finest blend of grains, seeds, ants' eggs, dried flies, and egg flake) is the dry feed. Fed this way chicks grow bigger and stronger every day, and reach a vigorous maturity in short time, fully feathered, and with strong, capable internal functions.

Get these fine foods from your own dealer to-day.

**SPRATT'S**  
**(Chicken) Biscuit Meal and**  
**SPRATT'S CHIKKO**

Spratt's Chicken (Biscuit) Meal, per 7lb. Bag, 2s. 6d., per cwt. 36s. 6d.

Spratt's Chikko (Dry Feed), per 7lb. bag 2s. 3d., per cwt. 31s.

"Vigorous Chicks and How to Rear Them."  
SENT FREE. Write to-day.

**SPRATT'S PATENT Limited,**  
24, Fenchurch Street, E.C.3.

AT THE  
**ROYAL AGRICULTURAL SHOW**  
(CAMBRIDGE, JULY 4th-8th)

**VISIT Our Stand No. 89**  
**and SEE in USE the**  
**VENN CARR**

**PATENT AUTOMATIC DRY MASH**  
**HOPPER.**

**PATENT AUTOMATIC SCATTERING**  
**CORN FEEDER (throws grain 10ft.)**

**PATENT AUTOMATIC DRINKING**  
**FOUNTAIN.**

**POULTRY HOUSES and FOODS.**

These Appliances Feed your Birds without your aid. All you have to do is to fill them occasionally. ABSOLUTELY essential to all Progressive Poultry Keepers.

They WILL revolutionise your poultry management. SAVE YOU Worry, Time, Labour, and Food. GIVE YOU Evening, Week-end, and even Week Trips out. DISCOURAGE RATS, etc., therefore saves your chicks. PRICES little more, if any, than the ordinary Appliances. BUT they PAY FOR THEMSELVES AT ONCE.

TRY one, and if NOT SATISFIED, we return your money in full (see guarantee). We Sell Everything for Poultry on Approval. Send for our Illustrated Catalogue.

**VENN CARR, Ltd., (Dept 9),**  
**MAIDSTONE POULTRY FARM,**  
**'Phone No. 542. MAIDSTONE.**

We are EXPERTS in all kinds of  
**GRAIN and MEAL for POULTRY**  
**FEEDING and for the PRODUCTION OF EGGS.**

	per cwt.	s. d.
CHAMPION MIXTURE	22	0
A.1 MIXTURE (with or without Maize)	20	0
X.B. MIXTURE	18	0
X. MIXTURE	17	0
CLIPPED OATS (Heavy)	20	0
CHAMPION LAYING MEAL	21	0
CHAMPION DRY MASH	21	0
CHAMPION CHICK FOOD, No. 1	27	0
CHAMPION CHICK FOOD, No. 2	27	0
CHAMPION DRY CHICK MASH	23	0
CHAMPION PULLET MIXTURE	22	0
SPECIAL KIBBLED MAIZE	18	0

DISCOUNT:—6d. per cwt. for 5 cwt. and over; 1s. per cwt. for 10 cwt. and over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and SUBURBS DAILY in quantities of 7lbs. and upwards to meet the REQUIREMENTS OF ALL.

NO DUST OR WASTE. Mixed and Well Cleaned by Special Machinery.

Samples and Price Lists free on application to

**WILLIAM BRINKLER & SONS, Ltd.**

Pigeon & Poultry Food Dept.,

(5) CLAPHAM GRANARIES, LONDON, S.W.4

Telephone: BATTERSEA 211.

I am now Booking Orders for Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by a son of Mr. E. C. B. Boucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. I have no other breed of hens, as I long since came to the conclusion that the Rhode Island Red is the Best Dual Purpose Bird in the World.

I shall have for disposal also White, Black, Fawn, Fawn & White, Khaki-Campbell and Coaley Fawn Ducks of my own strains and the Finest National Bentley Laying Test Blood which can be booked for delivery during the Autumn, at three or six months' old, and a few Special Drakes from Dams which have recorded up to 360 Eggs in the year.

### A. HAROLD PAINE,

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

**The Chalet, Burgess Hill, Sussex.**

W. MASON, M.S.P.B.A., P.C.,  
Littledale Poultry Farm, Halam,  
Near SOUTHWELL, NOTTS.,  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks various ages in White Leghorns, White Orpingtons, White Wyandottes, Light Sussex, Anconas (s.c.), R.I.R. (s.c.)

Inspection Invited. Cash or Deposit.

#### BUY DIRECT FROM THE MILLER.

Laying Meal (111 Food Units), contains no condiments or spices. A simple and wholesome meal specially prepared for egg production.  
21s. per cwt., or 11s. 6d. per 56 lbs.  
Carriage paid England and Wales.  
Cash with order. Bags free.

J. P. POWELL, Much Cowarne Mills,  
Nr. BROMYARD.



THE GREEN-OLDEN MEAL PEOPLE

### Our GROWING MASH and DRY CHICK FEEDS

Represent the last word in

### THE SCIENCE OF NUTRITION.

Feed the Steyne way and you will never regret it.

Lists and Samples with pleasure

**THE STEYNE FOODS CO.,**  
**STEYNING, SUSSEX.**



The WORLD'S RECORD WYANDOTTE (Midland Test, 1920-1921)

was reared on

## H. A. HUSSEY'S SUPER CHICK FOODS.

Mr. H. W. Honey, Alton, Hants (Breeder and Owner of Score-card Marvel, the remarkable White Wyandotte pullet, which laid 315 eggs in 11½ months, thus putting up a World's Record for W. Wyandottes and a British Record for all breeds), writes:—"I consider that good feeding is essential for successful chicken-rearing, and always use the best procurable. . . . All my birds are brought to Maturity on your foods, etc. . . ."

H. A. Hussey's Super Chick Foods are made to a high standard of QUALITY. They contain just those ingredients which have PROVED THE BEST by long experience and tests. These Foods will enable YOU to rear all reearable chicks to robust maturity

### H. A. HUSSEY'S EGG PRODUCERS.

	o.wt.	½ o.wt.	s. d.	s. d.		o.wt.	½ o.wt.	s. d.	s. d.
H.A.H. Super Chick Food...	27	0	14	6	Record Laying Meal (for use with	24	0		
No. 2 (for one month old)...	23	0	12	6	50 per cent. Midds. and Bran)...	24	0		
Large Chick Food .....	23	0	12	6	H.A.H. Complete Mash .....	24	0		
Chick - Rearing Meal "A" .....	25	0	13	6	Dry Mash (T. Newman's Formula) .....	18	0		
(First month) .....	25	0	13	6	Special Poultry Grain (Machine	21	0		
Chick - Rearing Meal "B" .....	25	0	13	6	Cleaned) .....	16	0		
Chick Dry Mash .....	25	0	13	6	No. 2 Poultry Grain (Machine				
					Cleaned) .....				

Carriage paid England and Wales. Sacks Free. Prompt dispatch. Samples, 2d. Stamp. Is. less 5 cwt. lots. Cash with order or deposit system. Special Quotations for Maize Germ Meal, Maize Gluten Meal, Oatmeal, etc., etc., on application, stating quantity required.

**HUSSEY BROS., Dept. E (H. A. HUSSEY, S.P.B.A., F.N.U.P.S.)**

515, Seven Sisters Road, TOTTENHAM, LONDON, N.

## G. A. TOMLINSON,

Clayton Poultry Farm,  
NEWCASTLE, STAFFS.

Specialist Breeder of **BLACK LEGHORNS, WHITE LEGHORNS, and WHITE WYANDOTTES.** Flocks of **FAWN and WHITE INDIAN RUNNER** and **KHAKI-CAMPBELL DUCKS** also kept.

**BLACK LEGHORNS. NATIONAL TEST** for the last two months have headed the monthly report in Section 6.

Stock Birds for Autumn Delivery now being booked.

Satisfaction Guaranteed on the "Money-Back" Basis.

**BREEDER AND EXHIBITOR OF PEDIGREE LARGE BLACK PIGS.**

Our SPECIALITY is the making of **DRY MASHES, CHICK and POULTRY FEEDS** to Customers' own requirements. We also make with the best ingredients.

Newman's Chicks Mash: 13s. 6d. owt.

Newman's Chick Feed: 19s. 6d. owt.

Newman's Poultry Mash: 15s. 6d. owt.

We supply everything required for the Poultry Keeper. For example: Midds., 11s. owt.; Broad Bran, 12s. 6d.; Ordinary Bran, 10s. 6d. etc.

Before purchasing elsewhere mail your requirements to enable us to quote and send Samples.

Bags Free and Free on Rail. Cash with order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,

PUBLIC HALL, "HADLEIGH," ESSEX.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years

**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time. His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER,**  
DENNY, SCOTLAND.

## FOR DISPOSAL.

50 W.L. and 20 B.L., April and May, 1922.  
Pullets.

6s. for Trap-Nested and 4s. each for  
Non-Trap-Nested.

Must sell to make room for early-hatched  
pullets near laying.

**BROWNE & BARRACLOUGH,**

S.P.B.A. and N.U.P.S.,

DRAYTON, NORFOLK.

**PURE SWEET STERILISED BLOOD.**

**RENTOX (Regd.)**

7 lb. bag sent post free for 1s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,**  
BORDSLEY STREET,  
BIRMINGHAM.

## 'PONDTAIL' POULTRY HOUSES.

These Houses are built of 1½ in. tongued and grooved boards, treated throughout with "Creolinum", made in six sections, easily put together with 8 bolts.

No.	Lgth.	Wdh.	Hgt.	Capacity.	Prices.
No. 1	4ft.	2ft.	3ft.	5 fowls	£3 10 0
No. 2	5ft.	3ft.	4ft.	10 fowls	£3 5 0
No. 3	6ft.	4ft.	5ft.	20 fowls	£4 10 0

These prices are Carriage Paid for 100 miles, and include Floors, Dropping Boards, Nest Boxes, Perches, Weather Boards and Lock-up Attendant's Door. Illustrated Catalogue free on application.

**PONDTAIL POULTRY FARM,**  
FLEET, HANTS.

## RATSTICKER DESTROYS RATS QUICKLY.

The non-poisonous varnish which causes natural death within a few minutes. Safe, certain, and continuous trap, recommended by Dr. Howarth, City of London Medical Officer.

Sole Manufacturers:  
**B. WINSTONE & SONS, LTD.**  
(Dept. W).  
100-101, Shoe Lane, London.  
E.C.4.  
Obtainable from all Chemists.



Full Instructions  
with each Tin.

Small for Mice,  
per 1/4 tin.

Medium for Rats,  
per 2/3 tin.

Extra Large for  
Rats,  
per 3/3 tin.

Post Free.

**E. LESLIE PATTISON,**

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS (S.C.)  
WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Bacillary White Diarrhoea.

All young stock reared on Free Range. 60 Acres Grass and Woodland.

SPECIAL QUOTATIONS FOR COOKERELS.

**3 MONTHS-OLD PULLETS, from 10/6 each.****'UTILITY' POULTRY FOODS.**

PRICES (Reg. Trade Mark) DOWN.

**Special Offers to S.P.B.A.**

	per cwt.	s.	d.
200 bags Maize Gluten Meal	12	6	
300 bags Fine Quality Fish Meal	15	0	
200 bags Fine Ground Biscuit Meal	16	0	
400 bags Best Sussex Ground Oats	15	0	
1000 bags White Dairi Seed	11	0	
200 bags Best Mixed Fowl Corn	12	0	
200 bags Chicken Mixture	13	0	
50 bags Granulated Charcoal	14	0	
200 bags Canary Seed	18	0	
100 bags Poultry or Chicken Rice	15	0	
500 bags Clipped Heavy White Oats	12	6	
500 bags American Red Wheat	14	0	
500 bags Broken Wheat and Cocks Seed	10	0	
F.O.E. Liverpool. Bags in. Cash Terms.			

ARGYLE MILLS, Argyle Street, Liverpool.

Phone: 2586 Royal. Telegrams, "Emphatic."  
Established 1868.**Eggs Insured**in the  
"Pocock"  
Patent and  
"Cushion"  
Patent**Egg Boxes**

Insurance Policy with every Box.

Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.**TIMBER—What about it. Great Reductions.**

(We Pay Carriage.)

Compare our prices with others. We can supply well-seasoned NEW Timber for the following rates:—

1in. x 4 1/2in. T.G.B.	8s. 3d.	1in. x 5in. Sawn Bds.	12s. 6d.	2in. x 2in. Battens	9s. 9d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 2in. Battens	3s. 6d.	2in. x 4in. Battens	18s. 6d.
1in. x 5 1/2in. T.G.B.	11s. 6d.	2in. x 1in. Battens	5s. 6d.	3in. x 3in. Battens	22s. 6d.
1in. x 5 1/2in. T.G.B.	12s. 6d.	2in. x 1 1/2in. Battens	7s. 3d.	3in. x 4in. Battens	30s. 6d.
1in. x 5 1/2in. T. & G.	15s. 6d.	3in. x 1in. Battens	7s. 3d.	3in. x 6in. Battens	44s. 6d.
1in. x 5in. Sawn Bds.	7s. 6d.	3in. x 2in. Battens	14s. 9d.	3in. x 5in. W'th b'ds	9s. 6d.
2in. x 5in. Do.	9s. 6d.	3in. x 1 1/2in. Battens	11s. 6d.	2in. x 2 1/2in. Battens	12s. 6d.
2in. x 2in. Pitch Pine Posts,	12s. 6d.	2in. x 3in. Pitch Pine Posts,	18s. 6d.		

per 100 running feet. Carriage Paid to nearest Goods Station. Cut to lengths or multiples. Cash with order. Special Terms for large quantities. When ordering please state nearest Railway Goods Station. Having now installed a new plant we can give delivery at once. We also supply Roofing Felt. Other sizes quoted for on application.

**RUSH & PARK,**Dept. F, Timber Merchants, Claremont Road  
Sawmills, Seaforth, Liverpool. Tel.: 624 Waterloo**“EGGS”**

can now be obtained from all Newsagents, and we suggest that anyone, who is not already a subscriber, requiring copies regularly, should fill up the following form and hand it to their Newsagent:—

To M.....

Please supply me with a copy of "Eggs" every week until this order is countermanded.

Name.....

Address.....

**NOTICE TO NEWSAGENTS.**

If any difficulty is experienced in obtaining "EGGS," please write to the Editor, The Beeches, Rudgwick, Sussex, giving the name of your Wholesaler. Postage will be refunded and arrangements made for you to be supplied.

Copies can always be obtained from the following Wholesale Newsagents:—

Messrs. W. H. SMITH and SONS, Strand House, Portugal Street, W.C.2. Messrs. JOHN MENZIES and CO., LTD., Wholesale Agents, Glasgow.

Messrs. JOHN HEYWOOD, LTD., Wholesale Newsagents, Deansgate, Manchester, and St. Bride Street, London, E.C.

Messrs. HORACE MARSHALL and SON, Temple House, Temple Avenue, London, E.C.4.



## PATENT FOR SALE

The Inventor and Patentee of a very well-known and efficient

## TRAP-NEST FRONT

is prepared to negotiate for the sale of the Entire Rights of Manufacture.

Inquiries in the first instance to  
INVENTOR,

c.o. Mr. F. J. CHURCHYARD  
24, Farncombe Street, London, S.E.16.

## UP-TO-DATE BOXES (WOOD),



For EGGS &  
CHICKS

Carry Millions  
of  
EGGS  
and  
CHICKS  
safely every season.

If you wish to eliminate your losses caused by faulty boxes, do not fail to give our boxes a trial.  
Illustrated List Free. Prices as cheap as cardboard boxes.  
Special Discount to S.P.B.A. Members.  
W. and T. MARKHAM (Dept. A.),  
QUENIBOROUGH, LEICS.

## DR. J. H. BALDWIN,

SPRINGFIELD P.F. WIMBORNE, DORSET.

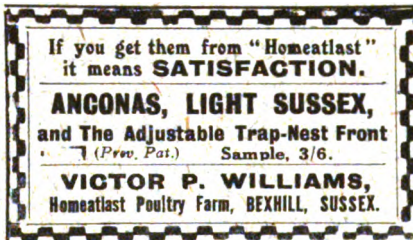
ONLY THE VERY FINEST STOCK in

White Leghorns,

White Wyandottes,

R. I. Reds (s.o.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.



## GALVANISED CORN BINS.

1-cwt., 8/6; 3 for 24/- 2-cwt., 14/-  
3 for 41/- 3-cwt., 21/-

Also a QUANTITY of 1-cwt. BINS,  
to clear, 5/6 each, 3 for 15/6

All Bins have hinge lids. All Goods Carr. Paid.

W. HUDSON, Sheet Metal Works  
Patricroft, LANCs.

## We Were Feeding Poultry a Century Ago,

And the results of our Experience and Laboratory  
Research from then until to-day are incorporated in

## PŪLBIS Poultry Food

WE GUARANTEE PŪLBIS to contain nothing but highly nutritive ingredients that cannot possibly fail to add vigour and strength to chicks and fowls alike. It is a natural and complete food—not a condiment, and the results of such a food will be forcibly shown by the bigger and more numerous eggs you will get from your poultry.

Those bigger eggs mean healthier-born chicks, which when fed on PŪLBIS (No. 1 Size) will mature with surprising rapidity.

Insist on PŪLBIS, the Complete food—refuse spices and so-called laying meals, and reap the benefit of our 100 years' labour.

Made by the Manufacturers of MELOX and MELOX MARVELS—those perfected and delightful dog foods.

POST COUPON FOR FREE SAMPLE OF PŪLBIS AND BOOK ON POULTRY CULTURE.

Made in Two Sizes:  
No. 1 - for Chicks  
No. 2 - for Adult Birds

From all  
Corn Merchants, etc.

3½-lb. Bag - 1/-  
7-lb. Bag - 2/-  
and Larger or Smaller Quantities.

W. G. CLARKE & SONS, Ltd., Limehouse, London, E.

## THE EMPTY NEST!



## I MUST GET SOME PŪLBIS.

W. G. CLARKE & SONS, Ltd.,  
Limehouse, London, E.

Please send me, post free, Sample of  
PŪLBIS POULTRY FOOD and also  
your book on "Poultry Culture."

Name .....

Address .....

Dealer's Name .....

Address .....

E 28-6-22.





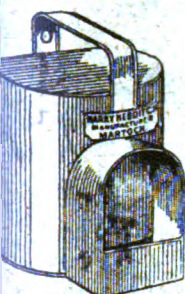
# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 2. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3



**No. 2 FOUNTAIN.**

A Protective Design, which keeps the water pure.  
Price:  
No. 1, 1-gall. size, 2/9 each, 3 for 7/9.  
No. 2, 1-gall. size, 2/9 each, 3 for 7/9.  
No. 3, 2-gall. size, 3/3 each, 3 for 9/3.  
No. 4, 3-gall. size, 4/9 each, 3 for 14/6.  
No. 5, 4-gall. size, 5/6 each, 3 for 17/6.  
No. 6, 5-gall. size, 6/3 each, 3 for 20/6.  
No. 7, 6-gall. size, 7/0 each, 3 for 21/0.  
No. 8, 7-gall. size, 7/6 each, 3 for 22/6.  
No. 9, 8-gall. size, 8/3 each, 3 for 24/3.  
No. 10, 9-gall. size, 9/0 each, 3 for 27/0.  
No. 11, 10-gall. size, 9/6 each, 3 for 28/6.  
No. 12, 11-gall. size, 10/3 each, 3 for 31/3.  
No. 13, 12-gall. size, 11/0 each, 3 for 33/0.  
No. 14, 13-gall. size, 11/6 each, 3 for 34/6.  
No. 15, 14-gall. size, 12/3 each, 3 for 37/3.  
No. 16, 15-gall. size, 13/0 each, 3 for 39/0.  
No. 17, 16-gall. size, 13/6 each, 3 for 40/6.  
No. 18, 17-gall. size, 14/3 each, 3 for 42/3.  
No. 19, 18-gall. size, 15/0 each, 3 for 45/0.  
No. 20, 19-gall. size, 15/6 each, 3 for 46/6.  
No. 21, 20-gall. size, 16/3 each, 3 for 48/3.  
No. 22, 21-gall. size, 17/0 each, 3 for 51/0.  
No. 23, 22-gall. size, 17/6 each, 3 for 52/6.  
No. 24, 23-gall. size, 18/3 each, 3 for 54/3.  
No. 25, 24-gall. size, 19/0 each, 3 for 57/0.  
No. 26, 25-gall. size, 19/6 each, 3 for 58/6.  
No. 27, 26-gall. size, 20/3 each, 3 for 61/3.  
No. 28, 27-gall. size, 21/0 each, 3 for 63/0.  
No. 29, 28-gall. size, 21/6 each, 3 for 64/6.  
No. 30, 29-gall. size, 22/3 each, 3 for 67/3.  
No. 31, 30-gall. size, 23/0 each, 3 for 69/0.  
No. 32, 31-gall. size, 23/6 each, 3 for 70/6.  
No. 33, 32-gall. size, 24/3 each, 3 for 72/3.  
No. 34, 33-gall. size, 25/0 each, 3 for 75/0.  
No. 35, 34-gall. size, 25/6 each, 3 for 76/6.  
No. 36, 35-gall. size, 26/3 each, 3 for 78/3.  
No. 37, 36-gall. size, 27/0 each, 3 for 81/0.  
No. 38, 37-gall. size, 27/6 each, 3 for 82/6.  
No. 39, 38-gall. size, 28/3 each, 3 for 85/3.  
No. 40, 39-gall. size, 29/0 each, 3 for 87/0.  
No. 41, 40-gall. size, 29/6 each, 3 for 88/6.  
No. 42, 41-gall. size, 30/3 each, 3 for 91/3.  
No. 43, 42-gall. size, 31/0 each, 3 for 93/0.  
No. 44, 43-gall. size, 31/6 each, 3 for 94/6.  
No. 45, 44-gall. size, 32/3 each, 3 for 97/3.  
No. 46, 45-gall. size, 33/0 each, 3 for 99/0.  
No. 47, 46-gall. size, 33/6 each, 3 for 100/6.  
No. 48, 47-gall. size, 34/3 each, 3 for 102/3.  
No. 49, 48-gall. size, 35/0 each, 3 for 105/0.  
No. 50, 49-gall. size, 35/6 each, 3 for 106/6.  
No. 51, 50-gall. size, 36/3 each, 3 for 108/3.  
No. 52, 51-gall. size, 37/0 each, 3 for 111/0.  
No. 53, 52-gall. size, 37/6 each, 3 for 112/6.  
No. 54, 53-gall. size, 38/3 each, 3 for 115/3.  
No. 55, 54-gall. size, 39/0 each, 3 for 117/0.  
No. 56, 55-gall. size, 39/6 each, 3 for 118/6.  
No. 57, 56-gall. size, 40/3 each, 3 for 121/3.  
No. 58, 57-gall. size, 41/0 each, 3 for 123/0.  
No. 59, 58-gall. size, 41/6 each, 3 for 124/6.  
No. 60, 59-gall. size, 42/3 each, 3 for 127/3.  
No. 61, 60-gall. size, 43/0 each, 3 for 129/0.  
No. 62, 61-gall. size, 43/6 each, 3 for 130/6.  
No. 63, 62-gall. size, 44/3 each, 3 for 133/3.  
No. 64, 63-gall. size, 45/0 each, 3 for 135/0.  
No. 65, 64-gall. size, 45/6 each, 3 for 136/6.  
No. 66, 65-gall. size, 46/3 each, 3 for 139/3.  
No. 67, 66-gall. size, 47/0 each, 3 for 141/0.  
No. 68, 67-gall. size, 47/6 each, 3 for 142/6.  
No. 69, 68-gall. size, 48/3 each, 3 for 145/3.  
No. 70, 69-gall. size, 49/0 each, 3 for 147/0.  
No. 71, 70-gall. size, 49/6 each, 3 for 148/6.  
No. 72, 71-gall. size, 50/3 each, 3 for 151/3.  
No. 73, 72-gall. size, 51/0 each, 3 for 153/0.  
No. 74, 73-gall. size, 51/6 each, 3 for 154/6.  
No. 75, 74-gall. size, 52/3 each, 3 for 157/3.  
No. 76, 75-gall. size, 53/0 each, 3 for 159/0.  
No. 77, 76-gall. size, 53/6 each, 3 for 160/6.  
No. 78, 77-gall. size, 54/3 each, 3 for 163/3.  
No. 79, 78-gall. size, 55/0 each, 3 for 165/0.  
No. 80, 79-gall. size, 55/6 each, 3 for 166/6.  
No. 81, 80-gall. size, 56/3 each, 3 for 169/3.  
No. 82, 81-gall. size, 57/0 each, 3 for 171/0.  
No. 83, 82-gall. size, 57/6 each, 3 for 172/6.  
No. 84, 83-gall. size, 58/3 each, 3 for 175/3.  
No. 85, 84-gall. size, 59/0 each, 3 for 177/0.  
No. 86, 85-gall. size, 59/6 each, 3 for 178/6.  
No. 87, 86-gall. size, 60/3 each, 3 for 181/3.  
No. 88, 87-gall. size, 61/0 each, 3 for 183/0.  
No. 89, 88-gall. size, 61/6 each, 3 for 184/6.  
No. 90, 89-gall. size, 62/3 each, 3 for 187/3.  
No. 91, 90-gall. size, 63/0 each, 3 for 189/0.  
No. 92, 91-gall. size, 63/6 each, 3 for 190/6.  
No. 93, 92-gall. size, 64/3 each, 3 for 193/3.  
No. 94, 93-gall. size, 65/0 each, 3 for 195/0.  
No. 95, 94-gall. size, 65/6 each, 3 for 196/6.  
No. 96, 95-gall. size, 66/3 each, 3 for 199/3.  
No. 97, 96-gall. size, 67/0 each, 3 for 201/0.  
No. 98, 97-gall. size, 67/6 each, 3 for 202/6.  
No. 99, 98-gall. size, 68/3 each, 3 for 205/3.  
No. 100, 99-gall. size, 69/0 each, 3 for 207/0.  
No. 101, 100-gall. size, 69/6 each, 3 for 208/6.  
No. 102, 101-gall. size, 70/3 each, 3 for 211/3.  
No. 103, 102-gall. size, 71/0 each, 3 for 213/0.  
No. 104, 103-gall. size, 71/6 each, 3 for 214/6.  
No. 105, 104-gall. size, 72/3 each, 3 for 217/3.  
No. 106, 105-gall. size, 73/0 each, 3 for 219/0.  
No. 107, 106-gall. size, 73/6 each, 3 for 220/6.  
No. 108, 107-gall. size, 74/3 each, 3 for 223/3.  
No. 109, 108-gall. size, 75/0 each, 3 for 225/0.  
No. 110, 109-gall. size, 75/6 each, 3 for 226/6.  
No. 111, 110-gall. size, 76/3 each, 3 for 229/3.  
No. 112, 111-gall. size, 77/0 each, 3 for 231/0.  
No. 113, 112-gall. size, 77/6 each, 3 for 232/6.  
No. 114, 113-gall. size, 78/3 each, 3 for 235/3.  
No. 115, 114-gall. size, 79/0 each, 3 for 237/0.  
No. 116, 115-gall. size, 79/6 each, 3 for 238/6.  
No. 117, 116-gall. size, 80/3 each, 3 for 241/3.  
No. 118, 117-gall. size, 81/0 each, 3 for 243/0.  
No. 119, 118-gall. size, 81/6 each, 3 for 244/6.  
No. 120, 119-gall. size, 82/3 each, 3 for 247/3.  
No. 121, 120-gall. size, 83/0 each, 3 for 249/0.  
No. 122, 121-gall. size, 83/6 each, 3 for 250/6.  
No. 123, 122-gall. size, 84/3 each, 3 for 253/3.  
No. 124, 123-gall. size, 85/0 each, 3 for 255/0.  
No. 125, 124-gall. size, 85/6 each, 3 for 256/6.  
No. 126, 125-gall. size, 86/3 each, 3 for 259/3.  
No. 127, 126-gall. size, 87/0 each, 3 for 261/0.  
No. 128, 127-gall. size, 87/6 each, 3 for 262/6.  
No. 129, 128-gall. size, 88/3 each, 3 for 265/3.  
No. 130, 129-gall. size, 89/0 each, 3 for 267/0.  
No. 131, 130-gall. size, 89/6 each, 3 for 268/6.  
No. 132, 131-gall. size, 90/3 each, 3 for 271/3.  
No. 133, 132-gall. size, 91/0 each, 3 for 273/0.  
No. 134, 133-gall. size, 91/6 each, 3 for 274/6.  
No. 135, 134-gall. size, 92/3 each, 3 for 277/3.  
No. 136, 135-gall. size, 93/0 each, 3 for 279/0.  
No. 137, 136-gall. size, 93/6 each, 3 for 280/6.  
No. 138, 137-gall. size, 94/3 each, 3 for 283/3.  
No. 139, 138-gall. size, 95/0 each, 3 for 285/0.  
No. 140, 139-gall. size, 95/6 each, 3 for 286/6.  
No. 141, 140-gall. size, 96/3 each, 3 for 289/3.  
No. 142, 141-gall. size, 97/0 each, 3 for 291/0.  
No. 143, 142-gall. size, 97/6 each, 3 for 292/6.  
No. 144, 143-gall. size, 98/3 each, 3 for 295/3.  
No. 145, 144-gall. size, 99/0 each, 3 for 297/0.  
No. 146, 145-gall. size, 99/6 each, 3 for 298/6.  
No. 147, 146-gall. size, 100/3 each, 3 for 301/3.  
No. 148, 147-gall. size, 101/0 each, 3 for 303/0.  
No. 149, 148-gall. size, 101/6 each, 3 for 304/6.  
No. 150, 149-gall. size, 102/3 each, 3 for 307/3.  
No. 151, 150-gall. size, 103/0 each, 3 for 309/0.  
No. 152, 151-gall. size, 103/6 each, 3 for 310/6.  
No. 153, 152-gall. size, 104/3 each, 3 for 313/3.  
No. 154, 153-gall. size, 105/0 each, 3 for 315/0.  
No. 155, 154-gall. size, 105/6 each, 3 for 316/6.  
No. 156, 155-gall. size, 106/3 each, 3 for 319/3.  
No. 157, 156-gall. size, 107/0 each, 3 for 321/0.  
No. 158, 157-gall. size, 107/6 each, 3 for 322/6.  
No. 159, 158-gall. size, 108/3 each, 3 for 325/3.  
No. 160, 159-gall. size, 109/0 each, 3 for 327/0.  
No. 161, 160-gall. size, 109/6 each, 3 for 328/6.  
No. 162, 161-gall. size, 110/3 each, 3 for 331/3.  
No. 163, 162-gall. size, 111/0 each, 3 for 333/0.  
No. 164, 163-gall. size, 111/6 each, 3 for 334/6.  
No. 165, 164-gall. size, 112/3 each, 3 for 337/3.  
No. 166, 165-gall. size, 113/0 each, 3 for 339/0.  
No. 167, 166-gall. size, 113/6 each, 3 for 340/6.  
No. 168, 167-gall. size, 114/3 each, 3 for 343/3.  
No. 169, 168-gall. size, 115/0 each, 3 for 345/0.  
No. 170, 169-gall. size, 115/6 each, 3 for 346/6.  
No. 171, 170-gall. size, 116/3 each, 3 for 349/3.  
No. 172, 171-gall. size, 117/0 each, 3 for 351/0.  
No. 173, 172-gall. size, 117/6 each, 3 for 352/6.  
No. 174, 173-gall. size, 118/3 each, 3 for 355/3.  
No. 175, 174-gall. size, 119/0 each, 3 for 357/0.  
No. 176, 175-gall. size, 119/6 each, 3 for 358/6.  
No. 177, 176-gall. size, 120/3 each, 3 for 361/3.  
No. 178, 177-gall. size, 121/0 each, 3 for 363/0.  
No. 179, 178-gall. size, 121/6 each, 3 for 364/6.  
No. 180, 179-gall. size, 122/3 each, 3 for 367/3.  
No. 181, 180-gall. size, 123/0 each, 3 for 369/0.  
No. 182, 181-gall. size, 123/6 each, 3 for 370/6.  
No. 183, 182-gall. size, 124/3 each, 3 for 373/3.  
No. 184, 183-gall. size, 125/0 each, 3 for 375/0.  
No. 185, 184-gall. size, 125/6 each, 3 for 376/6.  
No. 186, 185-gall. size, 126/3 each, 3 for 379/3.  
No. 187, 186-gall. size, 127/0 each, 3 for 381/0.  
No. 188, 187-gall. size, 127/6 each, 3 for 382/6.  
No. 189, 188-gall. size, 128/3 each, 3 for 385/3.  
No. 190, 189-gall. size, 129/0 each, 3 for 387/0.  
No. 191, 190-gall. size, 129/6 each, 3 for 388/6.  
No. 192, 191-gall. size, 130/3 each, 3 for 391/3.  
No. 193, 192-gall. size, 131/0 each, 3 for 393/0.  
No. 194, 193-gall. size, 131/6 each, 3 for 394/6.  
No. 195, 194-gall. size, 132/3 each, 3 for 397/3.  
No. 196, 195-gall. size, 133/0 each, 3 for 399/0.  
No. 197, 196-gall. size, 133/6 each, 3 for 400/6.  
No. 198, 197-gall. size, 134/3 each, 3 for 403/3.  
No. 199, 198-gall. size, 135/0 each, 3 for 405/0.  
No. 200, 199-gall. size, 135/6 each, 3 for 406/6.  
No. 201, 200-gall. size, 136/3 each, 3 for 409/3.  
No. 202, 201-gall. size, 137/0 each, 3 for 411/0.  
No. 203, 202-gall. size, 137/6 each, 3 for 412/6.  
No. 204, 203-gall. size, 138/3 each, 3 for 415/3.  
No. 205, 204-gall. size, 139/0 each, 3 for 417/0.  
No. 206, 205-gall. size, 139/6 each, 3 for 418/6.  
No. 207, 206-gall. size, 140/3 each, 3 for 421/3.  
No. 208, 207-gall. size, 141/0 each, 3 for 423/0.  
No. 209, 208-gall. size, 141/6 each, 3 for 424/6.  
No. 210, 209-gall. size, 142/3 each, 3 for 427/3.  
No. 211, 210-gall. size, 143/0 each, 3 for 429/0.  
No. 212, 211-gall. size, 143/6 each, 3 for 430/6.  
No. 213, 212-gall. size, 144/3 each, 3 for 433/3.  
No. 214, 213-gall. size, 145/0 each, 3 for 435/0.  
No. 215, 214-gall. size, 145/6 each, 3 for 436/6.  
No. 216, 215-gall. size, 146/3 each, 3 for 439/3.  
No. 217, 216-gall. size, 147/0 each, 3 for 441/0.  
No. 218, 217-gall. size, 147/6 each, 3 for 442/6.  
No. 219, 218-gall. size, 148/3 each, 3 for 445/3.  
No. 220, 219-gall. size, 149/0 each, 3 for 447/0.  
No. 221, 220-gall. size, 149/6 each, 3 for 448/6.  
No. 222, 221-gall. size, 150/3 each, 3 for 451/3.  
No. 223, 222-gall. size, 151/0 each, 3 for 453/0.  
No. 224, 223-gall. size, 151/6 each, 3 for 454/6.  
No. 225, 224-gall. size, 152/3 each, 3 for 457/3.  
No. 226, 225-gall. size, 153/0 each, 3 for 459/0.  
No. 227, 226-gall. size, 153/6 each, 3 for 460/6.  
No. 228, 227-gall. size, 154/3 each, 3 for 463/3.  
No. 229, 228-gall. size, 155/0 each, 3 for 465/0.  
No. 230, 229-gall. size, 155/6 each, 3 for 466/6.  
No. 231, 230-gall. size, 156/3 each, 3 for 469/3.  
No. 232, 231-gall. size, 157/0 each, 3 for 471/0.  
No. 233, 232-gall. size, 157/6 each, 3 for 472/6.  
No. 234, 233-gall. size, 158/3 each, 3 for 475/3.  
No. 235, 234-gall. size, 159/0 each, 3 for 477/0.  
No. 236, 235-gall. size, 159/6 each, 3 for 478/6.  
No. 237, 236-gall. size, 160/3 each, 3 for 481/3.  
No. 238, 237-gall. size, 161/0 each, 3 for 483/0.  
No. 239, 238-gall. size, 161/6 each, 3 for 484/6.  
No. 240, 239-gall. size, 162/3 each, 3 for 487/3.  
No. 241, 240-gall. size, 163/0 each, 3 for 489/0.  
No. 242, 241-gall. size, 163/6 each, 3 for 490/6.  
No. 243, 242-gall. size, 164/3 each, 3 for 493/3.  
No. 244, 243-gall. size, 165/0 each, 3 for 495/0.  
No. 245, 244-gall. size, 165/6 each, 3 for 496/6.  
No. 246, 245-gall. size, 166/3 each, 3 for 499/3.  
No. 247, 246-gall. size, 167/0 each, 3 for 501/0.  
No. 248, 247-gall. size, 167/6 each, 3 for 502/6.  
No. 249, 248-gall. size, 168/3 each, 3 for 505/3.  
No. 250, 249-gall. size, 169/0 each, 3 for 507/0.  
No. 251, 250-gall. size, 169/6 each, 3 for 508/6.  
No. 252, 251-gall. size, 170/3 each, 3 for 511/3.  
No. 253, 252-gall. size, 171/0 each, 3 for 513/0.  
No. 254, 253-gall. size, 171/6 each, 3 for 514/6.  
No. 255, 254-gall. size, 172/3 each, 3 for 517/3.  
No. 256, 255-gall. size, 173/0 each, 3 for 519/0.  
No. 257, 256-gall. size, 173/6 each, 3 for 520/6.  
No. 258, 257-gall. size, 174/3 each, 3 for 523/3.  
No. 259, 258-gall. size, 175/0 each, 3 for 525/0.  
No. 260, 259-gall. size, 175/6 each, 3 for 526/6.  
No. 261, 260-gall. size, 176/3 each, 3 for 529/3.  
No. 262, 261-gall. size, 177/0 each, 3 for 531/0.  
No. 263, 262-gall. size, 177/6 each, 3 for 532/6.  
No. 264, 263-gall. size, 178/3 each, 3 for 535/3.  
No. 265, 264-gall. size, 179/0 each, 3 for 537/0.  
No. 266, 265-gall. size, 179/6 each, 3 for 538/6.  
No. 267, 266-gall. size, 180/3 each, 3 for 541/3.  
No. 268, 267-gall. size, 181/0 each, 3 for 543/0.  
No. 269, 268-gall. size, 181/6 each, 3 for 544/6.  
No. 270, 269-gall. size, 182/3 each, 3 for 547/3.  
No. 271, 270-gall. size, 183/0 each, 3 for 549/0.  
No. 272, 271-gall. size, 183/6 each, 3 for 550/6.  
No. 273, 272-gall. size, 184/3 each, 3 for 553/3.  
No. 274, 273-gall. size, 185/0 each, 3 for 555/0.  
No. 275, 274-gall. size, 185/6 each, 3 for 556/6.  
No. 276, 275-gall. size, 186/3 each, 3 for 559/3.  
No. 277, 276-gall. size, 187/0 each, 3 for 561/0.  
No. 278, 277-gall. size, 187/6 each, 3 for 562/6.  
No. 279, 278-gall. size, 188/3 each, 3 for 565/3.  
No. 280, 279-gall. size, 189/0 each, 3 for 567/0.  
No. 281, 280-gall. size, 189/6 each, 3 for 568/6.  
No. 282, 281-gall. size, 190/3 each, 3 for 571/3.  
No. 283, 282-gall. size, 191/0 each, 3 for 573/0.  
No. 284, 283-gall. size, 191/6 each, 3 for 574/6.  
No. 285, 284-gall. size, 192/3 each, 3 for 577/3.  
No. 286, 285-gall. size, 193/0 each, 3 for 579/0.  
No. 287, 286-gall. size, 193/6 each, 3 for 580/6.  
No. 288, 287-gall. size, 194/3 each, 3 for 583/3.  
No. 289, 288-gall. size, 195/0 each, 3 for 585/0.  
No. 290, 289-gall. size, 195/6 each, 3 for 586/6.  
No. 291, 290-gall. size, 196/3 each, 3 for 589/3.  
No. 292, 291-gall. size, 197/0 each, 3 for 591/0.  
No. 293, 292-gall. size, 197/6 each, 3 for 592/6.  
No. 294, 293-gall. size, 198/3 each, 3 for 595/3.  
No. 295, 294-gall. size, 199/0 each, 3 for 597/0.  
No. 296, 295-gall. size, 199/6 each, 3 for 598/6.  
No. 297, 296-gall. size, 200/3 each, 3 for 601/3.  
No. 298, 297-gall. size, 201/0 each, 3 for 603/0.  
No. 299, 298-gall. size, 201/6 each, 3 for 604/6.  
No. 300, 299-gall. size, 202/3 each, 3 for 607/3.  
No. 301, 300-gall. size, 203/0 each, 3 for 609/0.  
No. 302, 301-gall. size, 203/6 each, 3 for 610/6.  
No. 303, 302-gall. size, 204/3 each, 3 for 613/3.  
No. 304, 303-gall. size, 205/0 each, 3 for 615/0.  
No. 305, 304-gall. size, 205/6 each, 3 for 616/6.  
No. 306, 305-gall. size, 206/3 each, 3 for 619/3.  
No. 307, 306-gall. size, 207/0 each, 3 for 621/0.  
No. 308, 307-gall. size, 207/6 each, 3 for 622/6.  
No. 309, 308-gall. size, 208/3 each, 3 for 625/3.  
No. 310, 309-gall. size, 209/0 each, 3 for 627/0.  
No. 311, 310-gall. size, 209/6 each, 3 for 628/6.  
No. 312, 311-gall. size, 210/3 each, 3 for 631/3.  
No. 313, 312-gall. size, 211/0 each, 3 for 633/0.  
No. 314, 313-gall. size, 211/6 each, 3 for 634/6.  
No. 315, 314-gall. size, 212/3 each, 3 for 637/3.  
No. 316, 315-gall. size, 213/0 each, 3 for 639/0.  
No. 317, 316-gall. size, 213/6 each, 3 for 640/6.  
No. 318, 317-gall. size, 214/3 each, 3 for 643/3.  
No. 319, 318-gall. size, 215/0 each, 3 for 645/0.  
No. 320, 319-gall. size, 215/6 each, 3 for 646/6.  
No. 321, 320-gall. size, 216/3 each, 3 for 649/3.  
No. 322, 321-gall. size, 217/0 each, 3 for 651/0.  
No. 323, 322-gall. size, 217/6 each, 3 for 652/6.  
No. 324, 323-gall. size, 218/3 each, 3 for 655/3.  
No. 325, 324-gall. size, 219/0 each, 3 for 657/0.  
No. 326, 325-gall. size, 219/6 each, 3 for 658/6.  
No. 327, 326-gall. size, 220/3 each, 3 for 661/3.  
No. 328, 327-gall. size, 221/0 each, 3 for 663/0.  
No. 329, 328-gall. size, 221/6 each, 3 for 664/6.  
No. 330, 329-gall. size, 222/3 each, 3 for 667/3.  
No. 331, 330-gall. size, 223/0 each, 3 for 669/0.  
No. 332, 331-gall. size, 223/6 each, 3 for 670/6.  
No. 333, 332-gall. size, 224/3 each, 3 for 673/3.  
No. 334, 333-gall. size, 225/0 each, 3 for 675/0.  
No. 335, 334-gall. size, 225/6 each, 3 for 676/6.  
No. 336, 335-gall. size, 226/3 each, 3 for 679/3.  
No. 337, 336-gall. size, 227/0 each, 3 for 681/0.  
No. 338, 337-gall. size, 227/6 each, 3 for 682/6.  
No. 339, 338-gall. size, 228/3 each, 3 for 685/3.  
No. 340, 339-gall. size, 229/0 each, 3 for 687/0.  
No. 341, 340-gall. size, 229/6 each, 3 for 688/6.



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony?

Letter No. 60.

Iona,  
King's Road,  
New Milton,  
HANTS.

Messrs. Priest and Shaw,  
Poultry Breeders,  
Sandown, I.O.W.

Dear Sirs,—

I should be much obliged if you would please quote me the lowest price for a good 10 months' old White Leghorn Pullet (hatched in April, 1921). I want to buy six more pullets of the above variety, just as good as the six you sent me last August. They are splendid layers, and are getting on very well.

Kindly let me know.

I am,  
Yours faithfully,  
C. N. ARCHIBALD.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### "THEY MUST GO."

To make room for 800 1922 White Leghorn pullets the following stock must go at ridiculously low prices. **Note!** No disease past or present, satisfaction guaranteed, all carriage paid, approval deposit, inspection invited.

350 March, 1921 White Wyandotte pullets, Tom Barron x Abel Latham, 1st grade egg birds, with type and size, not yet bred from. **Price, 7s. each.**

100 April, 1920, White Leghorn hens, pure Padmans, pullet flock average 195, 50 of these actual daughters Pen 53 Silver Medal Winners, Harper-Adams, 1916-17, 2½ oz. egg hens, proved breeders, free from B.W.D. **Price, 6s. each.**

120 April, 1921, White Leghorn pullets, Padman x Joe Edmondson, flock of 320 did 66—70 per cent. throughout the winter, 1st grade egg birds, not yet bred from. **Price, 9s. each.**

4 March, 1921, White Leghorn cocks, pure Padmans, Dams record 226 10 months, Harper-Adams, 1917-18. Sire's dam 254. **Price, 12s. 6d. each.**

4 March, 1921, White Leghorn cocks, direct from Warwick Rogers, at 42s. each, strongly infused "Winter King" blood. **Price, 15s. each.**

40 April, 1921, White Runner ducks, Taylor's strain, prolific layers, with type. **Price, 6s. 6d. each.**

**JACK UNDERWOOD, S.P.B.A.,**  
The Reliable Poultry Farm,  
**SUTTON BONINGTON, LOUGHBOROUGH.**



# Do you count on Chance or Science?

FOR the success of your business? If you  
rely upon chance you will buy

## Sittings and Day-old Chicks

from any "Laying Strain" being  
offered, and, *with luck*, you may do  
well with them. But if you wish to  
eliminate all risk, look for stock that  
has done something in the GREAT  
OPEN TESTS, that is doing something,  
and will do still more—SCIENCE in  
Utility pedigree breeding is represented  
by

## Cam's Strains.

WHITE LEGHORNS. WHITE WYANDOTTES.

Satisfaction Guaranteed.

EDWARD CAM,  
The Glen Poultry Farm,  
HOGHTON,  
near PRESTON,  
Lancs.



### SPECIAL LIME STONE GRIT. NONE GENUINE WITHOUT THIS TRADE MARK.

Takes the place of Oyster Shell and Flint Grit.  
(Reg.).

3s. 6d. per cwt., 60s. per ton.

F.O.B. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Melbreck," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's B."

**BLACK, also WHITE LEGHORNS,**  
6-to-the-lb. Egg Strain.



Large Eggs.

High Records.

Hardy Stock.



Eggs, 6/- Chicks, 12/6. Three Months-old  
Pullets, 10/6. 1921 Trap-nested Hens, 10/-  
Breeding Pens, 7 Birds 6/6. Catalogue post free.

Dept. C. **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

### GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2 5s. 9d.  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.80	Calcium Sulphate	...	traces only
Silica	...	8.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £2 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per  $\frac{1}{2}$  ton; 23 6s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
SHELTENHAM, GLOSTERSHIRE.

## THE LANCASHIRE UTILITY POULTRY SOCIETY.

1st Annual International 12 Lunar Months'

### EGG-LAYING TEST. 1922-23.

To be held at  
HUTTON and HOWICK. PRESTON.  
On Newly Laid-out Ground,  
Commencing October 16th, 1922.

LARGE (10 Birds) and SMALL (5 Birds).  
Breeders' Sections.  
Valuable Cups, Trophies and Medals to be given.

For Particulars and Rules, apply—  
J. TOULMIN, Jr., Hon. Secretary,  
45, FISHERGATE. PRESTON.

Entries close September 1st, 1922.



THE GREEN-CLOVER MEAL PEOPLE.

Will Customers NOTE:—

Our June Prices held good for July; over 50 different foods.

Motor deliveries in Mid and West Sussex.

**THE STEYNE FOODS Co.,**  
Steyning, Sussex.

#### BUY DIRECT FROM THE MILLER.

Laying Meal (111 Food Units), contains no condiments or spices. A simple and wholesome meal specially prepared for egg production.  
21s. per cwt., or 11s. 6d. per 56 lbs.  
Carriage paid England and Wales.  
Cash with order. Bags free.

J. P. POWELL, Much Cowarne Mills,  
Nr. BROMYARD.

## HEPPELL'S HOPPERS.



### A SKETCH TELLS A STORY THAT CANNOT BE PUT INTO WORDS.

The Efficient NON-CHOKE Design of the Wasteless Hopper is apparent, but the true test is in actual use. You can return it if not satisfactory! Order through the S.P.B.A.

Length	14 in.	21 in.	28 in.	35 in.	Carriage
Price	8/-	10/-	12/6	15/6	Paid.

ILLUSTRATED LIST OF "EVERY-DAY" APPLIANCES POST FREE.

Water Fountains, Top Fill and otherwise. Grit Hoppers, etc. Poultry Houses.

DRY LAYING MASH, 16/6 cwt. (F.O.R., Bag Free).

**W. J. HEPPELL, Appliance Poultry Firm, Tantobie, Co. Durham.**

#### A. REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has done more to make them so than

**Tom Barron's**  
CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a cheap proposition for those who have room to bring them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets.  
Profusely Illustrated Catalogue and List sent on request. Postage 2d.

OF PROGRESS.

## "Poultry Foods and Feeding,"

ALSO

"Chicken Rearing,"

BY

**TOM NEWMAN.**  
Rudgwick, Sussex.

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

## "An Egg in Every Ounce."

# CLOVER MEAL

#### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England.

**ROSSLYN & Co.,**  
30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, July 19th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months; 3s. 3d., three months, post free.

Subscription to S.P.B.A., 6s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### NATIONAL POULTRY PARLIAMENT AT LEAMINGTON.

The third annual meeting of the National Poultry Parliament was held at Leamington by the kind invitation of the Mayor and Corporation on July 13th and 14th.

The President, Mr. Tom Barron, in introducing the Mayor, remarked that they were the guests of the Mayor and Corporation, who had generously placed the Town Hall at their disposal.

The Mayor, in welcoming the Delegates to the beautiful and historic town, remarked that many important conferences had been held there. His Worship referred to the beauties of the town and neighbourhood, and expressed the hope that the Delegates would have time to appreciate them. He spoke of the enormous amount of good work which the National Poultry Council was doing, and hoped that at some future time they might again visit Leamington.

Col. Sandbach, in a few well-chosen words, expressed the gratitude of the Delegates to the Mayor and Corporation for their hospitality.

Sir Daniel Hall, in apologising for unavoidable absence of the Minister for Agriculture, Sir Arthur Griffiths Boscawen, which he said was due to his presence being required on important business in the House of Commons, remarked that Sir Arthur had a very tender spot in his heart for the Poultry Industry; that was evinced by the strenuous efforts he had made to secure the grant for the Poultry Institute. He paid a high compliment to Mr. Tom Barron, remarking that he was one of the first to breed for

essentials, when the Poultry World appeared generally to be engaged in breeding for feather. It was commonplace twenty years ago to say that poultry-keeping could not be made to pay, and Tegetmeyer had offered a prize of £100 to anyone who could bring him a working balance-sheet which would show a profit.

Sir Daniel then referred to the Poultry Institute. He said that it had been urged on the Ministry for many years, but there had been the fight with the economists; fortunately the Ministry had had a windfall of £800,000, and £50,000 of that had been earmarked for the Poultry Institute and Research stations. Now they were only waiting for the industry to do its part and raise the £6,500. He understood that £2,600 had already been raised, and he urged them to hurry up and raise the balance. The Ministry, acting in full expectation that the money would be raised, were pushing forward their schemes, and they wanted all to work.

Speaking of the functions of the Institute and Research stations, Sir Daniel said: There was Commercial Research or Economics, sheer economic research had to be done, that form of research would be undertaken at the place where higher instruction is to be given. On the educational side an enormous improvement was possible, at present all they could do was to indicate the need for instruction to the County Councils, and grant them two-thirds of the working costs, but the instruction of the teachers to the County Councils would be the work of the Institute.

Referring to foreign competition, Sir Daniel remarked, that the best way to fight that was to become more efficient. The Ministry consider that the only way they can help is by the path of Investigation and Research. There was the question of Disease, the more intensively fowls are kept, and the more they are bred to maximum production the more susceptible they are to Disease. There was a great discrepancy between the number of chicks hatched and those reared. The Ministry themselves were taking steps to investigate disease, and were training investigators so that they might supply the many advisers of poultry keepers with a better basis for their knowledge than they have had.

There was the most important question of Nutrition. The fowl was not a very efficient converter of food, the convertible factor in a pig was 5 to 1, in a fowl, so far as they could ascertain, 12 to 1. They had no information whatever about a fowl's digestibility, owing to its structure this information was very difficult to obtain, but many of their experiments in connection with Vitamines had been made with fowls. Scientific Research in connection with breeding was necessary. If they turned to Dairy Farming they would find that a comparatively few years ago the



average herd yield of milk per head, was 450 gallons, now in many herds it exceeded 800 gallons.

It would be the function of the Institute to keep a continuous stream of Research on these three points.

Mr. Street-Porter proposed a hearty vote of thanks to Sir Daniel for his able and comprehensive address. They wished to express their sincere appreciation to the Ministry for the way they had pressed forward the scheme for the National Poultry Institute; they regretted the unavoidable absence of the Minister, but there was no one more welcome than Sir Daniel Hall. The Speaker referred to the Marking of Foreign eggs, and said they wished for the support of the Ministry in their efforts to protect both the consumer of the gross fraud of Chinese eggs being sold as English new laid.

Mr. A. G. Brownson seconded, and said that if they failed to raise the money for the Institute, they would be thoroughly ashamed of themselves.

Sir Daniel, in reply, said he had shown great interest in the industry, when he had appointed Mr. Percy Francis. If Ministers did not take an interest themselves, Mr. Francis would know the reason why.

The President, in reviewing his year of office, said that it had been a very strenuous one, they were disappointed that more societies had not become affiliated and given them better support. The most important event of the year was the Government grant for the National Poultry Institute, and he hoped they would soon succeed in raising their share. They had done much in defence of the town poultry keeper, and had been able to protect him from the arbitrary action of the local authorities on several occasions, but he himself took care to observe the ordinary rules of hygiene, and so avoid excuse for action on the part of the authorities.

He very much regretted that they had been unable to accomplish anything in the direction of obtaining those concessions on the payment of Income Tax, which were conceded to agriculturists.

On the question of the Marking of Foreign eggs, they had done and were doing everything that could be done, of that he had not the least doubt. They owed much to Messrs. Walker and Street-Porter for their work; had they been successful in securing their object, before the appeal for the Institute fund was made, he had no doubt that the money required would have been raised by now.

Mr. Edward Brown submitted his report. He commented on the strenuous work of the past year, which he said he thought they could look back upon with satisfaction. The number of affiliated societies was not so great as they could wish. He summarised the work of the Council during the past year, referred to the National Poultry Institute, and said the Council desired to testify to the earnest and long-sustained efforts on the part of the Right Honourable Sir Arthur Griffiths-Boscawen, M.P., Minister of Agriculture and Fisheries, and other prominent officials of his department, in preparation of the Scheme and obtaining the grant.

The Report indicated the National Poultry Council had obtained from the Ministry of Health an

authoritative declaration as to the Powers of Local Authorities in connection with Poultry Keeping.

A more difficult problem is that of poultry keeping by tenants of Council Houses, largely built from public funds, in that the respective Councils possess the right as landlords of imposing conditions of tenancy, and cannot be prevented so doing. In some instances, the representations of the National Poultry Council, and its support of local societies, have secured the abrogation or modification of restrictions, and the issue of reasonable conditions under which poultry may be kept. In others, however, up to the present time, District Councils have maintained their prohibitions.

In order that the position might be clearly understood, the National Poultry Council has issued a leaflet, entitled, "Powers of Local Authorities in respect to the Keeping of Fowls and other Poultry and in connection with Council Houses," and which was based upon information received from the Ministry of Health. This has been very widely disseminated and largely quoted in newspapers. Its effect has been most marked. All cases of action taken by Local Authorities should at once be reported to the National Poultry Council.

The Parliamentary Sub-Committee, on February 22nd, 1922, met the Agricultural Committee of the House of Commons, at which the views of the National Poultry Council were placed before the members of Parliament present, who were most sympathetic and promised their assistance. Arrangements were made for joint action as opportunity offered, and, as a consequence, questions have been asked in the House of Commons, as occasion arose. The position and claims of the Poultry Industry have thus been brought prominently forward.

In respect to Income Tax and Rating as applied to Poultry Farms, the position is still most uncertain, and it has been impossible to obtain a ruling which could be universally applied. The Council still has this subject under consideration, but delay could not be avoided owing to changes proposed in the Budget of 1922.

The first examination held by the National Poultry Examination Board was held at Harper Adam's Agricultural College, Newport, Salop, to the Governors of which institution the Council is greatly indebted, from September 19th to 23rd, 1921. Six candidates sat for the examination, two of whom passed—one with honours.

Comments have appeared in the Press, and statements been made suggesting that the National Poultry Council is in some respects responsible for delay in giving effect to resolutions adopted in favour of the Marking of Foreign Eggs. The Sub-Committee formed for promotion of this object has taken every opportunity to press the Government to carry the new Merchandise Marks Bill which gives the necessary powers to the Board of Trade to issue a regulation, without which the department named cannot so act. By questions in the House of Commons and in other ways the subject has been kept to the fore. A Bill has passed the House of Lords, and is now before the House of Commons. It, however, is by no means

satisfactory, and the Parliamentary Sub-Committee is seeking to have this amended in accordance with the policy of the National Poultry Council.

The balance sheet presented shows that the year ended without a serious deficit, as, fortunately, was the case a year ago. This satisfactory result was due to (1) the excellent response made to the appeal in July, 1921, by which the deficiency of 1920-21 was entirely cleared, (2) to the Special Contributions made by—

	£	s.	d.
Members of Scientific Poultry Breeders' Association	106	5	6
Members of National Utility Poultry Society	38	17	4
Competitors, Harper-Adams' Laying Trials	6	18	0

Mr. A. H. Brownson submitted the balance sheet, which he said was much more satisfactory than the previous year. Still they must have a bigger revenue if they were to accomplish the work, which was likely to increase considerably, in a thoroughly satisfactory manner. He urged members to endeavour to secure more affiliated societies, and more patrons.

This brought to a close the morning session.

In the afternoon the delegates visited Stratford-on-Avon, and were the guests of the Mayor and Mayoress, who kindly provided tea. It is unnecessary to say that Shakespeare's house was visited, also the Memorial Theatre, and other objects of historic interest in this beautiful town.

#### THE EVENING SESSION.

The evening session was entirely devoted to the election of officials for the coming year. Mr. Tom Barron, the retiring President, said that he wished to heartily thank them all for their kindness and support during his year of office. It had been a strenuous year, and much good work had been accomplished, but there was more to be done, and they must all do their utmost. He heartily thanked Mr. Edward Brown for the great help he had given him, and he should always look back on his year of office with pleasure and gratitude. He then introduced the President-Elect, Col. Sandbach.

Colonel Sandbach thanked all those present for the honour they had done him, and remarked that he had a difficult task to follow in the footsteps of such men as Mr. Edward Brown and Mr. Tom Barron. Mr. Stanley Street-Porter, in thanking those present for electing him as Vice-President, said he especially appreciated the fact that he had been nominated by the three most important societies.

Mr. A. H. Brownson was unanimously re-elected Treasurer.

Mr. E. Collier, secretary of the Lancashire Federation, was elected to the office of Auditor, vacated by Colonel Sandbach.

Mr. Kitson proposed a vote of thanks to the retiring officials, and spoke in the highest terms of the services rendered by Mr. Tom Barron and Mr. Brownson. This was seconded by Mr. Hammett, and carried amidst applause.

#### WEDNESDAY.

The President, on taking the chair, remarked that he was not going to detain them with a long speech. He said that some three or four years ago, six or seven men

met at the Harper-Adams' conference, and decided that it was time to form a National Poultry Council. He, Colonel Sandbach, was one of the seven, and they had now seen their hopes brought to fruition. For much of their success they had to thank the fertile brain of their old friend, Mr. Edward Brown. He thought that in the coming year they must keep five great objects before them. First, the Poultry Institute; secondly, the Marking of Foreign Eggs; thirdly, Railway Rates; fourthly, Keeping of Poultry in Urban Districts; fifthly, Attempt to bring closer together the Fancier and Utilitarian.

The resolutions before the Parliament were then dealt with.

#### RESOLUTIONS.

##### 1. Amendments to Constitution.

###### (a) Lancashire Utility Poultry Society.

"That the Lancashire Utility Poultry Society be added to the list of General Poultry Societies in Section V. of the Constitution of the National Poultry Council, and that it be amended accordingly."

Discussion arose as to whether or no, the L.U.P.S. could be described as a General Society, it being contended they were merely local. After a long discussion the matter was referred to the Council.

###### (b) National Utility Poultry Society.

"That the Utility Duck Club be added to the list of General Poultry Societies named in Section V. of the Constitution of the National Poultry Council, and that it be amended accordingly."

Agreed.

###### (c) Scientific Poultry Breeders' Association.

"That the Constitution of the National Poultry Council be amended in Section V., paragraph 4, by omitting the Agricultural Organisation Society and the Agricultural Wholesale Society from the Societies that may appoint delegates to the Council, and that the British Egg Producers, Ltd., be added to the list with the right to appoint two delegates."

This was amended, objection being taken to the appointment of two delegates. It was agreed that the society should have the right to appoint one.

##### 2. County Poultry Instructors.

###### National Utility Poultry Society.

"That in the opinion of the Council of the National Utility Poultry Society, steps should be taken to bring to the notice of County Authorities, especially on the part of residents within the respective areas, the desirability of appointing whole-time County Poultry Instructors throughout the country."

Agreed.

##### Prevention of Disease.

###### SCIENTIFIC POULTRY BREEDERS' ASSOCIATION.

"That the National Poultry Parliament is of opinion, in view of the heavy and increasing losses among poultry through disease each year, that the appointment of a Sub-Committee of practical poultry-keepers to investigate causes

and suggest methods of prevention, is highly desirable, and should prove of material benefit to the poultry industry. It is, further, of opinion that such investigation would be a valuable adjunct to the research work which will be undertaken by the Ministry of Agriculture and Fisheries."

Agreed.

#### Regulations in Urban Areas.

Manchester, Salford and District Utility Poultry Society.

"That in the best interests of poultry-keeping in urban areas, and as a protection to public health, the National Poultry Parliament resolves that the recommendations of the Medical Officer of Health for Manchester, together with those made in leaflet No. 1, issued by the National Poultry Council, be so drafted and enacted as to be made applicable to the whole country;

"And, further that the National Poultry Parliament send requisitions to the Home Secretary and Minister of Health to secure their general adoption."

Referred back to Council.

#### V. Influence of Broodiness.

Scientific Poultry Breeders' Association.

"That the National Poultry Council be requested to secure at the National Poultry Institute, when in operation, an investigation into the influence of breeding from non-broody hens upon the stamina and vigour of their progeny, in comparison with the progeny of hens which, by becoming broody in the course of nature, obtain a period of rest from laying, and, especially in respect to the hatchability of eggs produced by them and the liveability of chickens."

In the afternoon the delegates visited Warwick Castle, where a most enjoyable hour was spent, thence they went to Kenilworth P.F., where they were very kindly entertained by Colonel and Mrs. Napier. This was a most interesting and instructive visit, and very few of us came away without some new ideas, from this well planned and beautiful farm. The ingenuity of the labour-saving devices was much commented on.

#### THE NATIONAL POULTRY COUNCIL.

The first meeting of the new Council took place on Friday morning, and was mainly occupied in electing committees for the coming year.

Executive Committee (11 Members).

Mr. Tom Barron	...	...	...	32
Mr. Tom Newman	...	...	...	32
Principal Foulkes	...	...	...	29
Capt. Alan	...	...	...	28
A. T. Walker	...	...	...	28
W. Hammett	...	...	...	26
Capt. Pierson-Webber	...	...	...	24
Mrs. Rawson	...	...	...	22
E. Bostock Smith	...	...	...	21
J. G. Kitson	...	...	...	20
C. Longbottom	...	...	...	19

The Advisory Committee (2 Members).

Tom Barron 22, A. T. Walker 22, T. Newman 9, A. H. Brain 7, C. Longbottom 6.

Members were elected for the following committees: Parliamentary, Railway Rates, Press, Marking Foreign Eggs, National Diploma Board.

## FOWL PLAGUE AND FOWL PEST.

By Miss KNIGHT, M.B.

This is an acute infectious disease, caused by a "filter-passer," or "ultra-microscopic germ," i.e., by one which is too small to be seen, even with a microscope. Hitherto it has been found in Italy, Germany, France, and Belgium.

**Causation.** The germ is believed to be a very minute animal parasite. It has been proved to be present in the blood, the nervous system, the discharges from the nose, mouth and eyes, bile, droppings, etc. It is believed that the germ is chiefly present in the red blood cells. Even drying does not kill it, as it is active after it has been dried for some weeks. Direct sunshine kills it more quickly. Its activity is also destroyed by whitewash and the ordinary disinfectants. The disease has been seen in fowls, turkeys, pea fowls, guinea fowls, geese, pheasants, pigeons, ducks, and many other wild birds, but not in mammals.

Infection is naturally conveyed by the discharge from the nose and mouth, by droppings, or by eating diseased birds. The disease may result from the infection of a wound. Mites and ticks do not seem capable of spreading it.

**Symptoms.**—The incubation period is usually three to five days, but may be as long as seven days. The symptoms are similar to those of Fowl Cholera. The birds live, as a rule, three to eight days after the illness shows itself, but occasionally death may be sudden. In an acute case the bird first loses its appetite, then becomes weak and sleepy, hides in corners, and sits about with half-closed eyes, drooping comb and ruffled feathers. The temperature rises to 110 degrees or 112 degrees. The comb becomes violet, the colour spreading from the borders, or spots from on the sides; later it becomes black. It may be covered with white scales.

In a less acute case, the bird loses its appetite and goes on the nest to get away from the light. When disturbed, it staggers, and its head wobbles and turns backwards. As the disease develops, paralysis occurs, and the bird becomes very dull and sleepy, and sometimes a thick discharge comes from the mouth and nostrils. Conjunctivitis is sometimes found. The droppings are usually solid, but sometimes green.

**Post-mortem Appearances.** Small Haemorrhages are often found in the membrane lining the proventriculus (or true stomach). This is the dilated part below the gullet and above the gizzard), and in the passage between it and the gizzard. Small haemorrhages are often found in the fat round the gizzard, on the membrane



attached to the intestines, and under the thick lining of the gizzard. Occasionally minute haemorrhages are seen in the bag round the heart, in the heart fat, and in the linings of the windpipe and gullet. The kidneys are much enlarged. When the ovary is active, there is marked congestion of the vessels supplying the yolk sacs, and occasionally there are small haemorrhages into the yolk. The spleen and liver are sometimes enlarged and congested. In some cases the upper part of the intestine is inflamed, but the lower part very rarely. Occasionally there is a small amount of thick gelatinous matter in the abdomen, and in the bag round the heart. There is often a purple discolouration of the comb.

**Diagnosis.** Haemorrhage in the proventriculus, enlarged kidneys and congestion of the ovaries, in birds dying of an acute infectious disease, are important points. Cultures from the blood and organs give negative results, i.e., no germ can be found. Under these circumstances, it may be presumed that the disease is present. But the only way at present available of proving this is to inoculate a healthy bird with blood or tissues of one that has died from the disease and to reproduce the disease in that bird.

**Differential Diagnosis** (that means the method of distinguishing between this disease and other conditions that resemble it). The appearances produced by Arsenic and Phosphorus poisoning may be mistaken for this disease. But in phosphorus poisoning there is a more marked inflammation of the upper part of the intestine and a more general reddening of the gizzard. On opening the gizzard and crop the characteristic smell will be noticed, and often fumes escape on moving the contents. In poisoning by either drug, there will be haemorrhage in a congestion of gizzard and intestine, but not elsewhere. Fowl Cholera somewhat resembles Fowl Plague. But in this case the germ that causes it can be found.

**Prevention.** There is no treatment known which can cure an affected bird.

Healthy birds should be moved to fresh ground, and the general methods of disinfecting water, runs, etc., as advised for other infectious diseases, should be followed.

During the last two or three weeks I have had many birds of all ages, from young chicks to hens, which have shown the condition above described. I have not been able to find any visible germs, neither have I found Coccidia. The history in most cases is that many birds are dying, and no cause can be discovered. Neither can I find anything, except these indefinite haemorrhages and congestions.

I can hardly suppose that a general state of poisoning exists over the whole of the British Isles. As far as I know, there has been no special and general campaign against rats lately. Therefore, it seems that there must be an epidemic of some kind. It is not B.W.D., or Fowl Typhoid, or Fowl Cholera, or Coccidiosis. It may be Fowl Plague, or it may be some unknown disease.

I should be much obliged if any readers who may be losing birds, especially if these have a discharge from the nose, eyes, or mouth, would communicate with me. If they could manage to take the temperature of some birds it would be of assistance.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rydgwick, Sussex.

### APPLICANTS FOR MEMBERSHIP.

I recently had occasion to denounce an advertisement which appeared in "Eggs." The advertiser in question does not carry on the business of a poultry dealer under his own name, but applied in his real, or I should say, *her* real name, for membership of the S.P.B.A. The name appeared in our issue of July 5th, and I have had over thirty letters of objection. Of course, membership was refused. It is pleasing to know that members do scan the list of applicants, as we have had very few objections, and I have wondered sometimes, if it is realised why the list is published.

### SEMI-NON SITTERS.

What constitutes a non-sitter? I see in a contemporary, Lakenvelders are described as being "like the Leghorns semi-non sitters." Only last week someone wrote to me complaining of their broody Anconas. This morning I discovered a White Leghorn in a hedge sitting on 12 eggs. The question then arises, have we any real "non-sitters?" or must we in the future describe them as "semi." In Australia some years ago they complained of the increased broodiness of the White Leghorn, and I suspect that was due to the introduction of alien blood, which would also apply to some of our own strains. But it is a very small percentage of Leghorns that ever grow broody, so I don't think we need introduce the "semi" yet. The Lakenvelders, we are told, "closely resemble the single-combed Leghorn, and fully equal the latter as a table fowl." I suspect that this was "writ sarkastic."

### FISHY EGGS.

I saw in the "Daily Mail" a paragraph under this heading a day or two ago, the writer, of course, exaggerated the matter, and gave one the idea "fishy" eggs were quite common. He attributed it to the excessive use of fish meal, and added that it was unnecessary to use more than 10 per cent., with that I agree, but he is nearer the mark when he says that it is caused by the use of inferior fish meal containing a lot of fish oil; you can feed a very high percentage of fish meal of a good brand without the eggs tasting, but there is too much inferior stuff on the market which should only be sold for manurial purposes.

## NOTICES.

### BRIGHTON AND DISTRICT U.P. SOCIETY.

On Saturday, 22nd July, weather permitting, the Society will visit Miss Maddison's pedigree breeding farm. Members should travel from Brighton by the 3.5 train to Horsted Keynes.

On Saturday, 29th July, the Society will inspect the Steyne Food Mills at Steyning. Members should

book by the 3.43 train from Brighton to Steyning. Since Mr. Wood wishes to show the various milling processes light clothes or a covering mackintosh should be worn, as there may be considerable dust.

H. M. TIMPANY,

Hon. Sec.

#### DEPTFORD AND DISTRICT UTILITY POULTRY CLUB.

The club enjoyed a most interesting field day on July 2nd, when, as the guests of Mrs. H. H. Kent, a party of twenty-five visited Stanbridge Grange, Hand Cross. We arrived most opportunely, just in time to see the birds penned ready for the Royal Agricultural Show. It was clear even to us backyarders that Mrs. Kent was sure of the "pots," and the prize lists have confirmed our humble opinions.

Tom Newman's formula for dry mash was in evidence—to which the laying houses bore ample testimony. Mrs. Kent has the "goods" from the point of view of the poultry student, and her enthusiasm is infectious. But the backyarder looks round the broad acres at Stanbridge, with their grassy undulations and sun-bathed runs, and sighs. Having secured a promise from Mr. Kemsley, Mrs. Kent's capable manager, to judge at our show in October, we finished our day with a visit to the charming Grange, and, having thoroughly enjoyed its old-time beauty and fascinating collection of furniture, we Deptford backyarders sighed again.

E. W. J. FROST,

Hon. Sec.

27, Rolt Street,  
Deptford, S.E.8.

#### THE LONDON AND DISTRICT POULTRY ASSOCIATION.

(Affiliated to the S.P.B.A.).

The usual monthly meeting took place on Wednesday evening, July 5th, at Brondesbury Hall, when Mr. Bruce Wilcock, A.P.F.D., gave an illuminating address on "Hatching and Rearing Without Tears." The points of interest on which the lecturer spoke were as follows: Artificial and Natural Hatching; Artificial and Natural Rearing; Various Methods of Feeding Chicks from the third day to Maturity; Diseases among Chicks.

Question time found Mr. Bruce Wilcock literally snowed up with questions.

Captain J. W. Smith proposed a hearty vote of thanks to the lecturer for his most instructive and interesting lecture. How interesting it had been was proved by the number of questions.

New members wishing to join the Association should take advantage of the liberal terms. They will receive a receipt for the 5s. subscription, entitling them to membership up to September 30th, 1923.

For enrolment forms, apply the Hon. Sec., S. Flewellin, 89, Purves Road, Kensal Rise, London, N.W.10.

#### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager.  
"Eggs," 94, Farncombe Street, London, S.E. 16

## Foods and Feeding.

By TOM NEWMAN.

#### ANIMAL FOOD AND ALTITUDE.

I have received the following letter from The "Henwife." Your Canadian correspondent asks: "Does altitude make any difference to the amount of animal food in the Mash." Most certainly it does—as the following experience will show: My plant is 400 feet above sea level, very wind swept—on cold wet clay—in rainy weather the birds' feet are always oaked in damp clay. One season we tried the following mash: 12lbs. Bran, 3 Clover Meal, 15 Toppings, 10 Maize Meal, 5lbs. Fish Meal; result, no eggs. Then we put on our thinking cap, and having come to the conclusion that our farm resembled Mr. Hanson's as to climate and soil, we altered our mash to 25lbs. Bran, 25lbs. Toppings, 25 Maize Meal, 25 Fish Meal. Result: A satisfactory flow of eggs, the birds in perfect health, and we stick to the Hanson mash. A friend who lives on hot-dry, sandy soil has had practically to eliminate fish meal from his summer dietary—to give the quantity as advised by Hanson would be suicidal in this part of the world. It is generally acknowledged that the colder and damper the climate the more animal food is required for warmth. Of course, the quantity of fish meal is reduced in the hot dry summer."

I am afraid I can't agree with "The Henwife." In the first place our Canadian friend was speaking of an altitude of some thousands of feet, and I expect he would look upon 400 as a little matter. Secondly, my own farm is nearly 750 feet above sea level, and we never exceed 10 per cent. animal food. I think if she compares her mashes she will find that the real cause of the increased production was that there was less bulk to the mash. In the first mash the bulk was in the proportion of one to two parts, in the second it was but one to three. What we want at a higher altitude is more fat, not more protein. It is perfectly true that more animal food is eaten by the inhabitants of the colder climates, with perhaps the exception of Australia, where, I understand, there is a greater consumption per head than in any other country in the world, but the Lapps and the Esquimaux consume enormous quantities of animal fat, which is far more necessary to them than animal protein.

## EVERY BIRD OFFERED HAS A CLEAN BILL OF HEALTH.

Our Breeding Stock consisted of all birds reared by us. They were trap-nested during their pullet year. The flock average is 200, and no bird with less than 200-egg record has been used.

The Cockerels we used were bred as follows:—

*White Wyandottes.* Hens with 266 to 278-egg records in their pullet year, mated to Cockerel from a 286 Hen, Sire's dam 290.

From the above stock we offer:—

**250 Early Feb. 1922-Hatched COCKERELS at 10/6 each, Carriage Paid**

Telegrams:— . . . . .  
Utility. . . . .  
Wilmslow



Telephone:— . . . . .  
162 Wilmslow

*Satisfaction  
Guaranteed.*

# Lindhurst Poultry Farm

Moor Lane,  
WILMSLOW.  
CHESHIRE.

*Inspection  
Invited.*

M.S.P.B.A.

N.U.P.S.

### REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS.

### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags	2 3
12lb. Bags	3 9
28lb. Bags	7 6
56lb. Bags	12 9

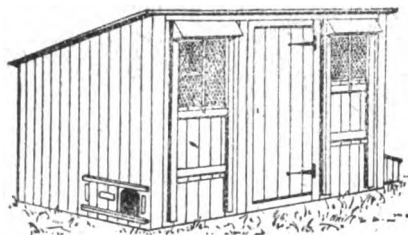
### Prices per Cwt.

	s. d.
1 cwt.	25 6
3 cwt.	24 6
6 cwt.	23 6

Carriage Paid nearest Station in  
England and Wales.  
Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.

## GREAT BARGAIN!



**Only £5 Free on  
Rail.**

This house is 9ft. 0in. x 8ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected 4in. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-;  
if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,  
SHIPLEY, YORKS.**

'Phone: 521 SHIPLEY.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt. s. d.
Dried Buttermilk (for chicks)	20 0
Sussex Ground Oats	17 0
Maize Meal	11 0
Maize Gluten Feed	12 0
Pea Meal	16 0
Bean Meal	16 0
Meat Meal (Fine Ground)	24 0
Fish Meal (Best White)	24 0
Biscuit Meal (Fine)	25 0
Clover Meal	16 0
Broad Bran	12 0
Middlings (Best Fine White)	12 0
Middlings (English)	12 0
Feed Wheat (Best English)	15 0
Feed Oats (Best English)	15 0
Kibbled Maize (Sifted)	13 0
Flint Grit	5 0
Limestone Grit	6 0
Oyster Shell	11 0
Cockle Shell	8 0
Dried Yeast	20 0
Rolled Wheat (for Chicks)	18 0
Pinhead Oatmeal	24 0
Whole Oat Groats	28 0
Broken Rice	16 0
*No. 1 Chick Feed	22 0
Mash for Laying Hens	18 0
(Both the latter are Mr. Tom Newman's Recipes).	

FREE ON RAIL, HEATHFIELD or  
LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS, IF ORDERED THROUGH

ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX.



# ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

*Supplied on Application FREE OF CHARGE by the Manufacturers of*

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

7/- per 15 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

## COMPARE OUR PRICES ALSO OUR SAMPLES WHICH ARE FORWARDED FREE ON APPLICATION.

	Cwt. s. d.		Cwt. s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa) ...	18 0	"Moregg" Dry Mash ...	17 0
"Moregg" Laying Meal (no Alfalfa) ...	17 0	Poultry Mixture ...	17 6
Pure Sussex Ground Oats ...	20 0	Poultry Oats (clipped) ...	17 6
Pure Alfalfa Meal ...	22 0	Kibbled Maize (screened) ...	14 6
Pure Clover Meal (not Cob or Chaff Dust) ...	18 0	"Rearall" 1st Chick Feed ...	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt) ...	21 0	"Thryvon" 2nd Chick Feed ...	22 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.) ...	23 0	"Matua" Chicken Mixture ...	20 0
Carriage Paid.	Chick Mash ...	18 0	Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret that owing to the short crop of GREEN ALFALFA we have been compelled to raise the price 2s. 0d. per cwt.

**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

# C. A. SYDENHAM HANNAFORD, M.S.P.B.A.,

Hamworthy Junction,  
DORSET, ENGLAND.

The South of England Poultry Yards and Appliance Works.

IF YOU WANT TO MAKE POULTRY PAY, BUY WELL-MADE APPLIANCES AND NOT THOSE YOU HAVE TO SCRAP WHEN YOU RECEIVE THEM. MY APPLIANCES ARE CONSIDERED THE BEST.



50,000 English-Made Rings in Stock.

SPIRALS IN TEN COLOURS.



Size.	500	400	300	150	100	50	25	12
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1, Day-Olds	10 0	8 0	6 0	3 0	2 0	1 3	0 9	0 6
2, 2 Months	13 9	11 0	8 3	4 3	3 0	1 9	1 3	0 9
3, Half-Grown	15 0	12 0	9 6	5 0	3 6	2 0	1 4	0 10
4 and 5, Leghorns	25 0	20 0	15 6	8 3	5 9	3 0	1 9	1 0
6, Wyandottes	26 0	21 0	16 6	8 9	6 3	3 3	2 0	1 3
7, Ditto Cocks	27 6	22 0	17 6	9 0	6 6	3 6	2 3	1 6
8, Cochins, etc.	30 0	24 0	19 0	9 9	7 0	3 9	2 5	1 8
9, Turkeys, etc.	32 6	26 0	20 6	10 6	7 6	4 0	2 7	1 10

FLAT CELLULOID BANDS IN 15 COLOURS.

Red, Light Blue, Green, Violet, Dark Blue, Yellow, Pink, Brown, Black, White.  
Flat Bands I can also give five colours in stripes.

## Top Fill Fountain for Adults.

To hold 1 gal.:  
9s. 6d.

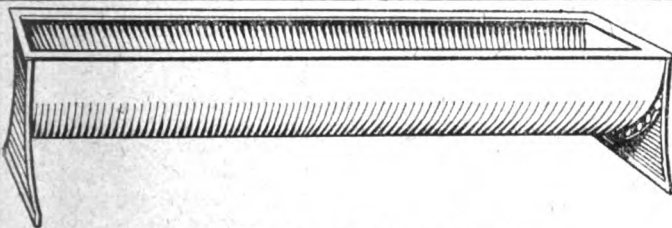
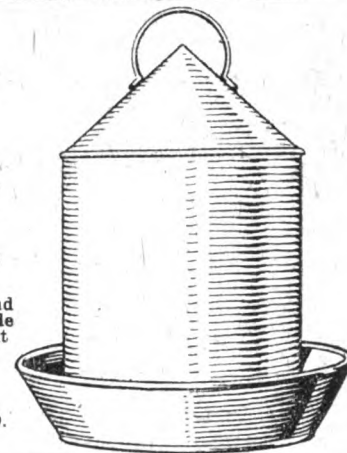
To hold 2 gals.:  
12s.

To hold 3 gals.:  
14s.

To hold 4 gals.:  
16s. 6d.

The lip around  
bottom can be made  
smaller to suit  
large flocks of  
young chicks.

ALL  
CARRIAGE PAID.



## Galvanized Iron Feeding Troughs.

12in. long, 3s. 6d.; 18in., 3s. 9d.; 24in., 4s.; 36in., 5s. each.  
3d. each less by taking six or more.

Larger Size, for Ducks, 4s., 4s. 6d., 5s., and 6s.  
All Carriage Paid.

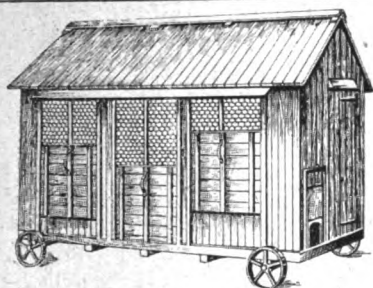
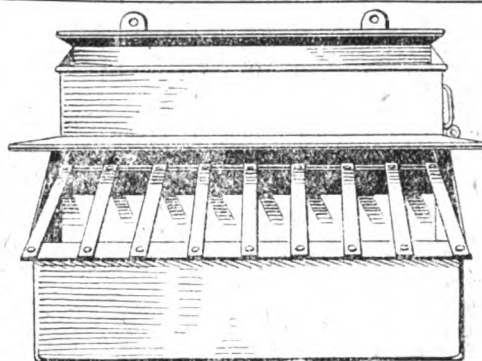
## The Improved Dry Mash Hopper.

24in. long, 20in.  
high, 9in. wide,  
21s. each.

12in. long, 16in.  
high, 9in. wide,  
12s. each.

Smaller size for  
a dozen hens,  
8s.

All  
Carriage Paid.



## Tenant Farmer House.

No. 1. 6ft. x 4ft. .... £8 0 0  
No. 2. 7ft. x 5ft. .... £10 17 6  
No. 3. 9ft. x 6ft. .... £12 17 6

Fitted with 13in. Wheels.  
3 Nests, 13s. 6d.; 4 Nests, 17s. 6d., or 5 Nests,  
21s. 6d.  
Carriage Paid.

## SEE THE "BEAT ALL" HOUSE,

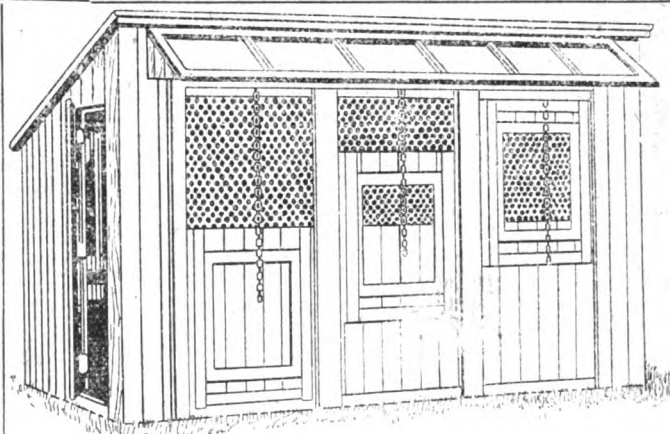
Advertised last week,

£2 10 0

6ft. x 4ft. x 4ft.

Not 3ft. 9in. as  
advertised as 4ft.  
by some makers.

Full particulars,  
Post Free.



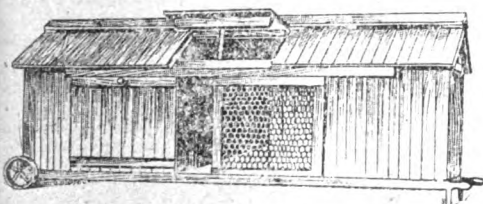
## THE "C.A.S.H." COMPLETE OUTFIT. MADE IN FOUR SIZES.

The No. 2 is made 7ft. long, 5ft. wide, 5ft. front, 4ft. back. £8 10s. 6d.; Floor, 22s.;  
Felted Roof, 10s. 6d.; penetrated outside, 7s. 6d. 4 outside nests, 17s. 6d.; 4 quart wall  
fountain, 5s. 9d.; 24in. feeding trough, 4s.

£11 17 9 (Carriage Paid).

The House is fitted with Dropping Board and One Perch.

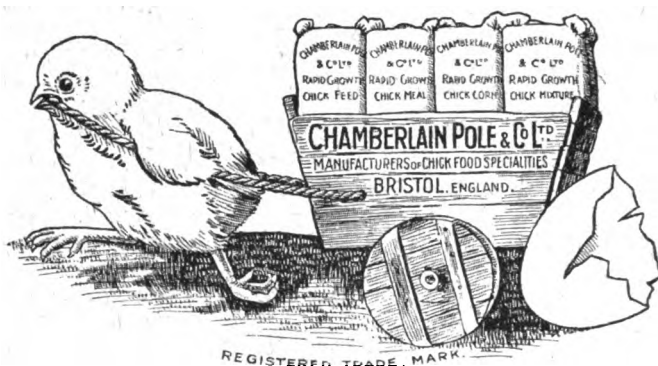
15 1921 White Leghorns or White Wyandottes, £9 7 6.



## Night Ark.

9ft. long, 2ft. 9in. wide: £4 15s. 0d.  
6ft. long, 2ft. 9in. wide: £4 5s. 0d.

5 per cent. Discount to M.S.P.B.A. 5 per cent. extra carriage to Channel Islands and beyond the Firth of Forth, 10 per cent. extra Ireland.  
I am now allowing an extra 5 per cent., viz., 10 per cent. to M.S.P.B.A., and 5 per cent. to Non-Members.



## REAR YOUR CHICKS ON Chamberlain's "Rapid Growth" Chick Food

AND ENSURE STRONG HEALTHY CHICKS.

### A CUSTOMER'S TESTIMONY.

An esteemed Redditch Customer writes:—"It may interest you to know I have for many years kept Fowls and reared a few Chickens for my own use, and have tried practically every known Chicken Mixture, but have no hesitation in saying that I have always had better results from your 'Rapid Growth' than any other."

WRITE FOR FREE SAMPLE TO—  
**CHAMBERLAIN, POLE & Co., Limited,**  
**BRISTOL.**

We are EXPERTS in all kinds of  
**GRAIN and MEAL for POULTRY**  
FEEDING and for the PRODUCTION OF EGGS.

	per cwt.
CHAMPION MIXTURE	22 6
A.1 MIXTURE (with or without Maize)	20 6
I.B. MIXTURE	18 6
X. MIXTURE	17 6
CLIPPED OATS (Heavy)	20 6
CHAMPION LAYING MEAL	21 6
CHAMPION DRY MASH	21 6
CHAMPION CHICK FOOD, No. 1	27 6
CHAMPION CHICK FOOD, No. 2	27 6
CHAMPION DRY CHICK MASH	23 6
CHAMPION PULLET MIXTURE	22 6
SPECIAL KIBBLED MAIZE	18 6

DISCOUNT:—6d. per cwt. for 5 cwt. and over; 1s. per cwt. for 10 cwt. and over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and SUBURBS DAILY in quantities of 7lbs. and upwards to meet the REQUIREMENTS OF ALL.

NO DUST OR WASTE. Mixed and Well Cleaned by Special Machinery.

Samples and Price Lists free on application to  
**WILLIAM BRINKLER & SONS, Ltd.**  
Pigeon & Poultry Food Dept.,  
(5) CLAPHAM GRANARIES, LONDON, S.W.4  
Telephone: BATTERSEA 211.

# NITROPHOS Brand of PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-; ½-cwt. parcels, 13/-; ¼-cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

**The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.**

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

<b>GUARANTEE</b>	55% ALBUMINOIDS.
	20% PHOSPHATES of LIME
	4% OIL (Maximum).
	3.5% SALT (Maximum).

**G. R. PINDER, M.S.P.B.A., N.U.P.S.,**

Offers  
A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have L2 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. Dottes, R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Lindsey Poultry Farm, Carlton, Louth, Lincs.



**BUY THESE TO-DAY. Govt. Surplus.**  
— A Big Bargain in BINS —

**4/3** each } 6 to 12 4/- 24 to 30 3/9  
complete } Immediate Despatch.

Don't miss this Amazing bargain.

As shown, sound, unused, 20 1/2 x 17 x 17; strong wood cases, painted, hinged cover. Inside removable metal bin, hold nearly cwt. corn. Rat proof. Hold water. Boon to smallholders.

**THE LEWIS SERVICE (7), 23 Waverley Rd., Redland, BRISTOL.**



## WHAT IS FORCING?

Mr. Ainsworth writes:—"In your articles on feeding you say, increase or decrease carbohydrates according to the requirements of the birds. You do not, however, fix a limit for the novice. The point is, when does an elastic formula become forcing?"

This is an old question, and not a very easy one to answer. In fact we cannot say that a mash is forcing until we have proved that it is so. There are certain symptoms which are familiar to us all, viz., layers' cramp, thin shelled or shell-less eggs, prolapsus of the oviduct. I do not say that they are invariably due to the feed being too forcing, but when I am asked to advise on these points, the first thing I want to get at is the feeding. Now in the main these troubles occur from late February to mid-May, that is in the flush, or what we will call the natural laying season, and the birds which are affected are almost invariably good layers, obviously then the mash has become too stimulating, but this is more likely to arise from the percentage of animal protein being too high, than it is from the carbonaceous food, in fact the heavy layer will need more of the latter, because she will have drawn so heavily on body fat to form yolks, and if it is not supplied her, eggs will become small, and she will be eventually compelled to take a rest. But if we have a large percentage of "duds" in our flock, these will become too fat if we overdo the carbohydrates, so for this reason I advise the bulking of the mash in the spring and summer months as this supplies the necessary fats to the layer, and prevents the dud becoming overfat. In the long days the good layer can consume enough fats to keep her going, but in the short winter months she cannot do so.

## MANGOLDS AGAIN.

Mr. Toovey writes:—"I see the question of mangolds is raised this week. My stock were fed largely on cooked mangolds during the late breeding season, of course, balanced with other foods: a few were fed raw with the exception of one pen of breeding stock, the Houdan-Leghorn pen. The birds did not care much for the raw mangolds, as there was plenty of grass. This pen eat a lot, and the eggs hatched and the chickens reared as well or even better than the others. If breeding sows are fed largely on mangolds and nitrogenous food omitted, the pigs will be weak and delicate, if fish meal or beans and peas are given the sows in small quantities, the results are quite satisfactory."

Mr. Toovey's answer is helpful, but it hardly gives us a solution, for in the case which Mr. Read placed before us, mangolds were only given as a substitute for green feed, and there is no reason to believe that there was a deficiency of nitrogenous food. We can quite understand in the case of the pigs, if mangolds formed a large part of the ration that they would be weakly, for the roots are deficient in lime salts which the fish or bean meal would supply, while the protein would be deficient in quantity and poor in quality. Of course, we have no definite proof that mangolds do cause poor hatchability, but there are many people who believe they do. The question is, is there any solid foundation

for the belief? and if so why should it be. Possibly it is because they contain such a high percentage of water.

## DUCKS AND DRY MASH.

I think it is generally believed that ducks cannot be successfully reared on dry mash, as I have not kept ducks for some years I have never expressed an opinion on this point, although I have never been able to see any reason why they should not be. In the days of my youth we were always told that ducks could not be kept without swimming water, now we know that they can be. Perhaps because so few have tried dry mash feeding for ducks, we have all agreed that "it can't be done." But Mr. R. Slater writes:—"I have more chicks this year than usual. They have come on nicely. I have used the dry mash given in "Eggs," and have found it very good for them. I have also some White Runner ducks. The young ones have also been fed on the dry mash, and they have come on splendid." However, I'm not a "ducker," although I believe Mr. Harold Paine is ambitious to make me one, so I will not begin an argument as to the merits of dry v. wet mash feeding for ducks.

## APPLICANTS FOR MEMBERSHIP.

- Crothwait, C. H., Plas Isaf, Llanganhafal, Ruthen, N. Wales.  
 Green, Tom, The Nook, Ingatstone, Sussex.  
 Ramsay, T. V., Valentine Poultry Farm, Gt. Totham, Witham, Essex.  
 Gibbs, Mrs. G., Gratwicke Hall, Flax Bourton, Somerset.  
 Grossman, H., Wedges Farm, Itchingfield, Horeham.  
 Shipley, S., 203, High Street, Talke Pits, Staffs.  
 Draffen, W. Stirling, The Gows, Invergourie, by Dundee.  
 Williams, Miss H. Mc. C., The Mill House, Sutton Scotney, Hants.  
 Faulkner, A., 18, Hill Park, Fareham.  
 Frazer, Sister Teresa, St. Vincent's Cripples' Home, Eastcote, Pinner.  
 Dalziel, Miss J., 19, Chlorine Gardens, Belfast.  
 Riley, Maj. O. C. H., Bullbrook Farm, Barns Green, Horeham.  
 Keat, Miss C. B., Little Gill Cottage, Mersham, Kent.  
 Eastwood, R., Acre Hill Farm, Chessington, Surrey.  
 Worsley, Patrick G., 10, Chapel Road, Brightlingsea, Essex.  
 Negus, Miss R. E., Morville, Sherbourne, Warwick.  
 Pendleton, E. S., 61, Alloway Street, Ayr, N.B.  
 Maxton, Mrs. L., White Lodge, Tournerville Lane, Hayling Island.  
 Lancaster, John W., Worminghall, Thame, Oxon.  
 Lee, Harold, Linkhill, Cootham, Pulborough, Sussex.  
 Yearsley, Wilfred Halford, 52, Vicarage Street, Cerne Abbas, Dorset.

## ARGUS

was possessed of a hundred eyes, of which only two slept at a time.

As you have only two eyes, Mr. Poultry Keeper, and these have to sleep sometimes, you must make provision for what happens when your eyes are closed.

An Insurance against fire, storm, theft, foxes, etc., can be effected at Lloyds at the minimum trouble and expense.

Write to the Advertisement Manager of "Eggs," 94, Farncombe Street, London, S.E.16, for proposal forms, rates of insurance, etc., which he will furnish free and post free.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

C. G. (March). An average-gallon of Clover Meal weighs about 1½ lbs. I cannot tell you of any book which gives the measure of any foodstuffs compared with their weights. (2) Henry and Morrison's book does not deal with poultry feeding at all, I do not know the price, I believe it is published by Ginn and Co.

D. W. F. (Chippenham). "My difficulty is feeding. It is easy to take recipes given, but I wish to understand some of the less deep rules governing feeding. No tables of analysis that I have approximately agree. Then although a laying hen is agreed to require an albuminoid ratio of approximately 1 to 4½, I have never yet seen what ratio a day-old chick, or a growing pullet, or a fattening cockerel, or breeding stock, or moulting hens require. Could you satisfy me on these points, and, if possible, give me some indications of how to obtain proper dietaries of common grains and meals for all these conditions of birds. There are many other problems in feeding I should like to ask about, but fear to encroach too much on your space, the weight per diem is general knowledge—but what about bulk. It is possible that on working out a dietary you might obtain one with the correct ratio, bulk and weight, yet a large portion might be fibre and mineral matter—that is to say, that I have seen no standard of how much approximately of the 4 ozs. a day must be digestible.

If you could answer these questions I should be much obliged, and perhaps these are of general interest. Rule of some seems to govern a lot of the feeding, and even some 'experts' seem very nervous when discussing the more scientific side."

Your question is far too big a one to answer fully here, D. W. F., but I will deal with it as well as I

can. An analysis of the body of a fowl would reveal to us that it is composed of protein, fats, carbohydrates, mineral matter, and water. These, then, are the substances which we have to introduce into the body to repair the waste of tissue, build it up and supply it with heat and energy. You will see, then that these are required both for the chick, the growing stock, and the laying hen, the latter will put any surplus above what she requires for maintenance, to egg production, therefore all three will require approximately the same albuminoid ratio, but a highly fecund hen may draw so heavily on her body reserve of fat that it may be necessary to feed her on a wider ration. I should have included the breeding pen in the above. With regard to the fattening, we do not want a ratio, we merely want a mixture of digestible foods, rich in fats and carbohydrates, our table of analysis will give us that. As to the moulting hen, the 1-4½ ratio will be right for her, but we must be guided by her bodily condition, and if she is on the light side give her a slightly wider ration. You complain that there is too much rule of thumb, but I think you are far more likely to run into the opposite mistake and become the worst of all feeders, the purely mechanical one if you attach so much importance to albuminoid ratios and tables of analysis, you will do far better to turn your attention to the study of, first your hens, and secondly food values. I have frequently pointed out that it is quite easy to get the same albuminoid ratio with two mashes, one of which may be very good and the other inferior as far as nutrient value goes. As to the difference in tables of analysis, this depends on the samples analysed. There are over 200 different varieties of wheat, some with a very much higher protein content than others, in addition to which we have to consider the different soils in which they are grown. The bulk of a mash should be adjusted to the bodily needs of the birds as far as possible, there is no "correct" bulk. Fowls digest fibre badly. we should feed the most digestible foods, having some regard to the quality of that which is digested.

Enkays (New Milton). I do not like your proposal of using a White Wyandotte male to breed from Leghorns, the cross should be the other way, but as your Leghorns, both black and white, have done well it seems to me that your wisest policy would be to confine yourself to one or other of these varieties. You cannot prevent the February Wyandotte pullets from laying, do not attempt it, if they come on to lay feed them well and do not try to check them. If you decide on the cross, you will get better table birds and layers by using a Leghorn male with the Wyandottes than you will the reverse way.

A. and F. (Stroudon). This is a moderately good sample of wheat screenings, suitable for a scratch feed.

Shellness (Yelverton). You have been doing your Light Sussex pullets rather too well, with a dry mash always before them, free range and 2½ ozs. of grain a day, it is no wonder they are a bit forward and hang about the house. Start them with a small feed of

grain in the litter, about a handful between 4 birds, don't open the mash hopper until 10 o'clock, that may induce them to forage, and finally give them a handful of grain between two birds also in the litter as the last feed. They are only dropping their chicken feathers, that is quite natural, it is nothing to worry about.

J. W. (Ayrshire). I am answering your letter through "Eggs," as it is a great convenience to me to do so when my correspondence is very heavy. (1) Your house will take 22 pullets as it stands, with the covered run you could keep 40. (3) Your perch will take 20 birds. (4) Your dry mash hopper should be 3 ft. long for 22 birds. (5) You should have one nest box to every 3 birds, 10 in. x 10 in. is a good size. (6) For the number of birds you could store 5 cwt. middlings, 4 bran, 1 each ground oats and maize gluten feed, and 2 fish meal. (7) I advise Gluten feed for layers, Germ Meal for breeders and growing stock. (8) The Ground Oats at 24s. are excessively dear, they are not Sussex Ground, those at 18s. are quite as good, but neither are they Sussex Ground. The lime stone grit is a fair sample, but the price is very high. (9) If you buy new pullets which have been reared on wet mash, the best way will be to get them on to dry by gradually reducing the wet and let the dry mash be always before them.

A. J. (Llanfairfechan). The mash as it stands will not require altering if the birds moult normally, but if they show signs of hanging in it, add  $\frac{1}{2}$  lb. of Linseed Meal. (2) Your chicks will get on to the perches when they are a bit older. They are all right on the dropping board so long as they don't crowd; perhaps your perches are not suitable for them. (3) I am sorry I cannot tell you how much of this to mix with your mash, as I have never used it.

Mrs. Mac (Hambledon). This is a very inferior sample of so-called Sussex Ground Oats. It contains a high percentage of added oat husk meal; it is a very extravagant price to ask for such a sample. I wonder if I might ask you to send me a larger sample, say about 4 ozs., as I am anxious to get inferior samples of various foodstuffs. I am so pleased you have found "Eggs" helpful to you.

### DUCK QUERIES.

By the Rev. Seymour Shaw.

E. S. (Oasted) asks:—(1) Whether Limestone Grit answers the purpose of Oyster Shell and Flint for laying ducks. The answer, as they say in another place, "is in the affirmative." I think it does just as well and is much cheaper.

(2) Do ducks lay better when run with drakes?

No, as far as we have been able to observe the presence of a drake does not influence egg production.

(3) Is the following mash "good for layers"?:  
6 lbs. Bran, 6 lbs. Middlings, 4 lbs. Maize Meal,  
4 lbs. Fish or Meat Meal.

No; I cannot say I like the mash at all. There is certainly too much Fish Meal, and it is not well balanced and little variety. I should prefer: 4 lbs. Bran, 8 lbs. Middlings, 3 lbs. Ground Oats (note necessarily S.G.O.), 3 lbs. Maize Meal, Maize Gluten, Maize Germ or Uveco, 2 lbs. Fish Meal.

Rockford Lodge (Knutsford). No, the matings you suggest would not be good. You would be mating brother to sister, and sire to daughter, and there is not any outstanding merit in the birds to justify such an extreme action.

You should mate the old drake to the old ducks again if the progeny (your young ducks) do well this winter. If they do not lay well, sell the old drake and buy another. If you want to breed from the young ducks, another drake should be purchased. He should be the son of a recorded duck that has laid something over 220 eggs in the first or second year—an extreme record is not necessary or, indeed, advisable.

There is no real necessity to separate the young drakes from the ducks during the winter months. They will not bother them unduly. As a matter of economy the young drakes should be sold for eating or consumed at home when they are about 9 weeks old and fully feathered. If they are not got rid of then they will moult and be worthless for a considerable time.

### POST-MORTEMS.

H. Bracher. Your bird had a large number of small cancerous tumours along the whole length of her intestines. Are any other birds ill?

J. Calcutt. Your chicken had Coccidiosis. In several cases of this disease that I have seen the birds have feathered badly.

The treatment is 1-3rd teaspoonful of powdered catechu in a gallon of water, to which bicarbonate of potash should also be added. If you have any difficulty in getting powdered catechu let me know. Yes, I like full particulars.

W. S. Hudds. Your bird died from internal haemorrhage from a much diseased liver. How do you feed?

G. C. H. Your drake's R. testicle was very much enlarged by a growth which I think was of a cancerous nature. He had another growth in the lower part of his pelvis. I think the yellow growth in the cock's mouth is diphtheritic. Isolate him and paint with iodine.

E. A. Horsted. Your hen had many small cancerous tumours the whole length of her intestine. Rodine rat poison does kill hens.

Cabin, Dewsbury. Your hen had acute inflammation of kidneys, liver and spleen, probably due to a chill. You give no particulars, but I gather that this is your only loss. The arrangements with regard to post-mortems are exactly the same for members of the S.P.B.A. as for any other readers of "Eggs."



H. E. Strong. I cannot complete your report until there has been time for the organs to be hardened, and for sections to be cut. As regards precautionary measures for the pullets, you should watch them, and handle them frequently, and isolate if you notice the least sign of ill-health. I don't think you can do much else beyond disinfecting the house and run.

"Bristothian." Your chicken had minute worms and also Coccidiosis. You had better treat the others for the latter disease, according to my article in "Eggs." When the Coccidiosis has been cured, the worms will require attention. The attack of Coccidiosis appears to be slight, as very few parasites were present. So I hope you will be able to save the others.

A. W. Reid. Could your ducks have got at any rat poison? The whole length of the intestine was congested, and there were deep haemorrhage in the gizzard. The condition looked like that found in arsenical poisoning.

D. W. Ferguson. Your bird had two kinds of worms in her intestine, large and small. She had also broken a yolk sac internally. As you have lost other birds lately, I am satisfied that there is some other trouble. If you lose another you had better let me have a few particulars. Could you take the temperature of the next ill bird?

E. F., Grayshott. Your Ancona hen had a cheesy tumour of her gizzard, which was, I think, tubercular. She had also broken a yolk sac internally (and this would have been the actual cause of death). She had small worms in her intestine. The White Leghorn had also broken a yolk sac internally, and she had a small blockage in her oviduct. Her kidneys were much enlarged—under her skin there were some parasites called "Laminosipates Cysticola." As you have had other losses, I wish you would take the temperature of any ill bird. I have had no letter from you; but I am sending your reports to "Eggs," as you usually ask me to do so.

M. E. Richardson and to the senders of the Silver Campine Hen, whose non-de-plume is quite illegible. Your birds showed the same P.M. appearances as are described in Fowl Plague. I notice that you have others ill. Disinfection of water, houses and runs is indicated.

R. M. Woolley. Your bird had congestion of lungs and liver, and enlarged kidneys, blocked with water. No letter has come from you yet. When you write, please say how you feed?

Z H. (Georgeham). I cannot give you the analysis of the two samples of biscuit meal, but that marked "B" is superior to the other, which appears to be the sweepings from some biscuit factory, and contains a high percentage of starch.

Nemo (Andover). This is not a pure fish meal, and it is a shame that it should be allowed to be sold as such. I would not use it on any account. (2) The stove to which you refer is a very good one.

## REGISTER.

### GOODWILL

*is a tangible asset to a business; it brings orders when demand is at its lowest; it is business momentum, and may be likened to the force which keeps the ship moving forward after the engines have stopped.*

*An advertisement in the 1923 Year Book and Register of The Scientific Poultry Breeders' Association will help you to build up goodwill. Every Member of the Association receives a copy of this Book, and refers to it many times in the course of the year. By advertising in it you can obtain an introduction to these 4,000 Members, as well as to thousands of other Poultry Keepers who are not yet Members.*

*Advertisement space is now being booked up, and you should send in your reservation of space at once, or write for fuller particulars. There is no excuse for staying out on account of expense, for you can obtain space as low as 8s. Address your enquiries to Advertisement Manager, 94, Farncombe Street, London, S.E.16.*

## THE COLONY HOUSE SYSTEM OF REARING FOWLS,

By E. J. MEEKINGS.

There has been a considerable amount of controversy as to the most efficient method of rearing chicks; one sees this and that method on various farms during different seasons, but is one ever certain which one is entirely successful?

During recent years there has been a tendency to deviate from the old paths which have been so well trodden by our predecessors. Probably the great demand during the war for poultry and poultry produce inclined us to adopt methods which were productive of the greatest results with the minimum of labour. Methods became Americanized, i.e., we did things on a big scale, as we like to say! The burning question is: *Do present results from rearing justify these more artificial methods?* One needs to approach this subject with a very open mind. There is no doubt that where one man succeeds with anthracite stoves, another fails; on the other hand, the successful anthracite rearer last year may be very dissatisfied with his results this year, and vice versa. And this seems to apply to all methods where chicks are reared in large flocks. With our modern methods, we are inclined to scoff at the man who resorts to the natural system of rearing, but does not wisdom more often lie with such, when, at the end of the season, he has secured the maximum number of pullets from the minimum number of eggs set! There are undoubtedly isolated cases where large numbers of chicks have been reared together successfully by artificial means, shall we say with 10 per cent. mortality; but with the majority it is not so; there is unquestionably a higher rate of mortality from year to year, which causes considerable alarm and misgiving to those earning their

living from this industry. The larger the flock, the greater the risk, and from information received from all quarters, it is being constantly proved that the larger the flock, the greater the loss. Also we must bear in mind, the larger the flock, the greater the skill required, and at this early stage of modern methods in poultry husbandry, there are not too many highly efficient poultry husbanders. We have yet to find a system which will give adequate assurance of successful rearing to the majority.

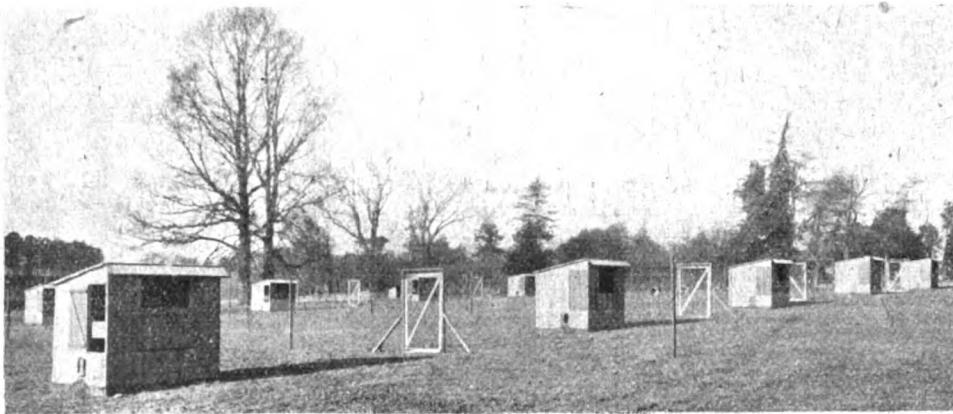
In this article on "The Colony House System of Rearing Chicks," my hope is to advocate a system which has proved successful with me over many years.

I would point out, however, that in view of the fact of the appalling rearing results from our highly fecund stock, I have come to the conclusion that the **BREEDER MUST BE INDIVIDUALISED**. From careful observation over a protracted season, I notice that the dead-in-shell and weakly chicks can repeatedly be traced back to the same hens. In the future, the pedigree breeder will be faced with the demand for assurances that his breeding-stock can be relied upon for a healthy progeny. Stock which in some way has

virtually open-fronted, as can be seen in the photo, but a strong movable shutter is provided, and can be used according to weather. The house is cheap and very simply constructed; it is made in sections, bolted together, and can be moved from place to place without any difficulty. In very cold or rough weather, the shutter may be almost closed, leaving the house full of light, because of the glass panel at the back. The house is placed in the centre of a grass pen, 20 yards square. I shall be glad to furnish any further particulars with reference to the house, if so required.

Now with regard to the type of Brooder used. I have proved over a number of years that the Pyramid Hover, of the Sharp or Golden type, answers the purpose admirably. The simple lamp, which can be easily managed, if understood, radiates a heat always sufficient during the coldest weather. The curtain surround allows ample air to enter the Hover, and there is always freedom from fumes, provided the lamp is cleaned carefully each day. The floor of the house is littered down with coarse chaff; this prevents chicks consuming parts of it.

I usually place 60 to 70 day-olds under one of these



No. 1.—VIEW OF COLONY REARING HOUSE.

a lowered vitality due to any cause common to our Industry, environment or otherwise, will produce chicks impossible to rear under any method, except PERHAPS under the hen. In future years on this farm, I shall trap-nest all my breeders, and in the first few weeks of the season tabulate those really worth breeding from; while this will mean added labour, it is surely policy that this should not be beyond the scope of a pedigree breeder, since customers will find the satisfactory results from eggs and birds purchased well worth the higher cost.

I claim in my method of rearing to have considered, first of all, **ECONOMY**, economy in the saving of chicks and housing accommodation.

In the first photograph readers will recognise the so-called Colony rearing-house; it is 6ft. square, 6ft. high in front down to 5ft. behind. It is built on a wooden floor and erected on strong battens. The house is made of  $\frac{3}{4}$ in tongued and grooved match boarding; and is lined throughout with felt. The door is 18in. from the floor, thus allowing a draught-free well; in the centre of the back of the house, a panel of glass, 3ft x 1ft. is horizontally inserted. The house is

Pyramids, which is surrounded by a small wire screen for the first 24 hours, to prevent any straying away and consequent chilling. They quickly, however, treat the Hover as a mother, and when thoroughly on their feet, spend more time in the house than under the Hover. They are fed in the usual way, i.e., on Mr. Tom Newman's simple method, as laid down in a recent issue of "Eggs."

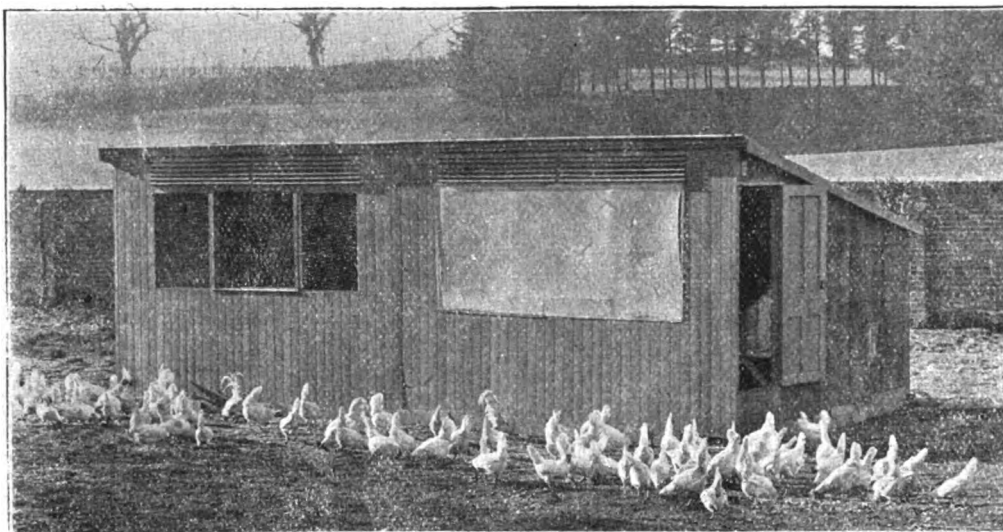
There is now no necessity for anxiety as far as the chicks are concerned. Daily feeding and the removal of foul litter from under the Hover constitutes all the necessary labour. Chicks are encouraged into the grass pens, as soon as possible.

When the chicks are five to six weeks old, and one is able to separate the sexes, the cockerels are removed and sold off, or kept for breeding stock, as the case may be; the pullets are allowed to remain another two or three weeks with the Hover; the lamp, however, is extinguished not later than the sixth week. Taking the normal loss, say, from 5 to 10 per cent. and 50 per cent. of cockerels, there will be left about 30 pullets in the house. At the end of the 6th week, a perch is

erected about 18in from the floor, and the pullets are encouraged to perch as early as possible. Between the 7th and 8th weeks, the Hover is removed altogether, and the pullets find comfortable room on the perch until about the 10th week. (Here I would draw attention to the necessary precaution of making up the corners with straw to prevent crushing). At this stage they can easily be removed to a larger house without risk of overcrowding, and the evils resulting therefrom.

In the second photograph readers will observe the

Readers will readily see the simplicity of a method which necessitates ONE HOUSE ONLY from day-old to laying stage. No doubt, large commercial egg farmers may say such a method is impossible where chicks are reared in many thousands, but I can assure them, it is not so. I rear 4,500 chicks myself with the aid of one man, and in the future hope to produce a yearly total of some 3,400 pullets by this method. I admit that it means more labour, but not that kind of labour which is so inimical to the morals of the



No. 2.—VIEW OF 100-SIZE PULLET HOUSE.

type of laying-house which is used on this farm; it is constructed similarly to the rearing-house, and will accommodate 100 laying pullets; this is placed in the centre of a grass pen, one-third of an acre in dimension. It is 25ft. long by 14ft. wide. This, I consider, to be a very economic unit, and the flock average from these units amply justifies the same.

workers as the constant removal of little corpses implies.

The Colony House system of rearing lightens that heavy period of the year, the result of which means so much to the individual farmer, as to the Industry as a whole.



No. 3.—GENERAL VIEW OF 100-SIZE PULLET HOUSES.

## National Poultry Institute List.

TO BE OR NOT TO BE.

The Members of S.P.B.A. and Readers of "Eggs."  
June 14th, 1922.

Ladies and Gentlemen,—In the current issue will be found a list of subscriptions already received towards the £6,500 Poultry Keepers have to raise in order that the National Poultry Institute may be brought into being.

The list may be considered fairly satisfactory as far as the amount subscribed is concerned, but on the other hand it is not at all satisfactory as regards the number of subscribers, which only works out about one in every twenty members. We must do better than this, and I would rather have seen 4,000 members subscribing 1s. each than that 200 should have put up an equivalent sum.

We desire to show that Poultry Keepers really want what the Government is now good enough to offer them. The Industry has been demanding assistance from the Government for years, and it must now show willingness to avail itself of the really generous proposals that have been made.

I want to point out that the money must be raised quickly, and I hope every Member of the Association will contribute to the fund.

With our large and ever-increasing membership, it ought to be easily within the range of possibility for the S.P.B.A. to send in a list of at least £1,000. This amount split up among the members means only a few shillings a head, and should surely be forthcoming.

The importance and usefulness of our Association, and the lively sense of its Members of benefits likely to accrue, will be demonstrated once more if S.P.B.A. heads the list.

The Poultry Industry needs the help of scientists to solve the many problems which are presenting themselves, so that wastage may be avoided, production increased and disease prevented. The late Professor Huxley said, "Science is organised. Common sense and men of science are common men drilled in the way of Common Sense."

Feeling confident of your generous support.

I am, Yours faithfully,

J. GERARD KITSON.

President.

### SEVENTH LIST.

Brought Forward ... £475 5s. 2d.

	s.	d.
Miss Keat	2	6
P. Holgate	4	0
Com. W. Richardson	5	0
S. Shipley	2	6
Major Pugh	10	6
R. M. Johnson	2	0
G. Slater	4	9
M. Warren Cooper	10	0
E. L. Pattison	63	0
H. E. Sweed	10	0
S. Waites	5	0
R. O. Boot	6	0
J. Wilson	2	0
Messrs. Ainley Bros.	10	0
R. M. Benton	5	0

Mr. and Mrs. Hamilton Lee	10	0
Mrs. H. Percy	10	0
Brig. General C. Hill	10	0
C. G. Brown	5	0
W. H. Scott	10	0
Mrs. A. V. Hunt	10	6
Mrs. Nash	42	0
F. Western	10	0
Miss M. Wart Hunt	10	0
Lieut. Col. W. H. C. Davy	10	0
M. E. Richardson	5	0
C. B. Gray	2	6
E. E. Fox	2	6
E. E. Harrap	10	6
Frank Wright	2	6
H. S. Grant	5	0
J. Bleach	2	6
H. F. B.	10	0
W. Browne	10	6
A. H. Battersby	1	0
Mrs. Mobbs	2	6
Miss C. Baird	10	6
E. W. Harding	2	6
Messrs. Hartley Bros.	2	6
W. Dowling	2	6
W. B. Nichol	5	0
E. Garstang	5	0
A. Yeadon	5	0
F. Batters	5	0
Ronald P. Smith	5	0
Miss J. Moncrieff	20	0
G. A. Tomlinson	100	0
Mrs. Halsall	5	0
J. Bargh	5	0
W. Chalk	3	6
Miss H. Winton	2	6
L. J. Roe	5	0
Russell and Fagg	10	0
H. Bannister	5	0
G. H. Lapierre	5	0
J. W. Lancaster	5	0
G. A. Pelling	5	0
J. L. Whytehead	21	0
Hon. Evelyn Fitzherbert	20	0
E. T. Lawrence	5	0
A. B. Parsons and Sons	20	0
R. Alexander Dare	5	0
E. P.	20	0
J. Maxwell	5	0
G. E. Vertae	7	6
G. B. Iles (2nd Donation)	2	6
Wood, W. M.	2	6
Rev. H. Brierly	5	0
Severn Storr	20	0
The Wadhurst Branch, per J. Everard	39	6
Total	510	18 5

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, JULY 14th, 1922.

GRAIN AND FEEDING STUFFS.—The chief demand for home-grown wheat at present appears to come from poultry keepers; prices are somewhat higher, averaging about 57s. per 504 lbs., an advance of 1s. per quarter on the week. Oats



and maize are firm in value, Argentine maize averaging about 41s. 6d. per 480 lbs.

Quotations for bran are lower, averaging slightly over £6 10s. per ton, but middlings are in fair request and prices are about maintained.

**MILLERS' OFFALS.**—Bran (British): Bristol, 47; Hull, 46 7s.; Liverpool, 46 7s.; London, 46 10s. Broad Bran: Hull, 47 17s.; London, 48. Fine Middlings (Imported): London, 49 10s. Coarse Middlings (British): Bristol, 49 12s.; Hull, 49 2s.; Liverpool, 48 8s.; London, 48 10s. Pollards (Imported): Bristol, 48; Liverpool, 47 6s.; London, 47 7s. Rice Bran: Bristol, 48; Liverpool, 47 12s.; London, 47 15s. **MEAL.**—Barley Meal: Bristol, 41 10s.; Hull, 41 5s.; London, 41 5s. Maize Meal: Bristol, 49 15s.; Hull, 49 10s.; Liverpool, 49 7s. Maize Meal (S. African): Hull, 48 10s.; Liverpool, 48 10s.; London, 48 15s. Maize Germ Meal: Bristol, 49 10s.; Hull, 49; London, 49 7s. Maize Gluten Feed: London, 48 17s.

#### EGGS AND POULTRY.

Week-end prices per 120: English New Laid, 18s., 19s.; Irish, 14s., 15s.; Dutch All Brown, 16s., 18s.

#### EGGS.

Per Doz.—Ashford: First, 2s. 1d.; Second, 2s. 0d.; Birmingham: First, 1s. 11d.; Second, 1s. 10d. Carlisle: First, 2s. 0d. Derby: First, 1s. 10d. Dorchester: First, 1s. 7d. Exeter: First, 2s. 0d. Hereford: First, 1s. 9d. Hull: First, 2s. 0d. Ipswich: First, 2s. 0d.; Second, 1s. 9d. King's Lynn: First, 1s. 8d. Lincoln: First, 2s. 0d. Llandilo: First, 2s. 0d.; Second, 1s. 10d. Montgomery: First, 2s. 0d. Newport (Mon.): First, 2s. 2d.; Second, 2s. 0d. Norwich: First, 2s. 0d. Oswestry: First, 1s. 9d.; Second, 1s. 8d. Penzance: First, 1s. 7d.; Second, 1s. 6d. Salisbury: First, 1s. 11d.; Second, 1s. 10d. Shrewsbury: First, 2s. 0d.; Second, 1s. 9d. Skipton: First, 1s. 6d. Taunton: First, 1s. 9d. Truro: First, 1s. 7d. York: First, 2s. 0d.

#### FOWLS.

Per lb.—Birmingham: First, 1s. 9d.; Second, 10d. Derby: First, 1s. 3d.; Second, 8d. Exeter: First, 2s. 0d. Hereford: First, 1s. 7d.; Second, 1s. 0d. Ipswich: First, 5s. 6d.; Second, 3s. 6d. Lincoln: First, 5s. 0d.; Second, 3s. 6d. Llandilo: First, 2s. 0d.; Second, 1s. 7d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 2s. 0d.; Second, 1s. 9d. Shrewsbury: First, 7s. 6d.; Second, 6s. 0d. Truro: First, 1s. 7d. York: First, 5s. 0d.; Second, 4s. 3d.

#### DUCKS.

Per lb. Birmingham: First, 1s. 9d.; Second, 1s. 6d. Derby: First, 1s. 6d. Exeter: First, 1s. 6d. Hereford: First, 1s. 6d. Llandilo: First, 2s. 0d.; Second, 1s. 9d. Shrewsbury: First, 9s. 6d.; Second, 8s. 6d.

\* Per Head.

## THE BRESSE FOWL AGAIN.

By "SURREY."

About three weeks ago an interesting article appeared in "Eggs" on the Bresse Fowl, signed "Middlesex," and what struck me more particularly in it was the writer's remark that he did not believe there was much Bresse blood in this country. A little over a year ago I started Poultry Farming again, after a lapse of a dozen years spent in general farming, and, remembering the success I had had with this breed before I determined to try it again. It was too late in the season to hatch on my own account, so I started with a purchase of a number of day-old chicks from Mr. ———'s well-known strain, and in spite of the difficulties incident on starting a new farm, successfully reared a number of good birds. The cockerels, owing to their excellent table qualities were much more appreciated than the Leghorn cockerels which I had to get rid of at the same age, and the pullets proved excellent and early layers. One laid 54 eggs between October 1st and December 31st (October 1st was the date on which we commenced trap-nesting, but this pullet had begun to lay earlier).

When the mating season came round, it was easy to select a number of good L2 pullets for the breeding pens, but I was then confronted with the difficulty of introducing fresh blood with the males. If the history of the existing strains in this country is traced back it soon shows that the sources of Bresse blood are extremely limited, and as I was anxious to breed a good "dual purpose" bird, I decided to import some stock from the Bresse district in France, where they are more concerned in developing the table qualities. With the help of friends in that country I obtained six pullets and two cocks direct from the President of the Bresse Club, and an interesting correspondence with him led to my becoming a member of that club, and to the acquisition of a monograph on *La Volaille de Bresse*, published in 1918. This gives not only most interesting general information about the breed, but also full details with illustrations as to the special way it is prepared for the table in France.

The birds arrived early in February after a long cold journey of four days, but they were in excellent condition, and in a few days settled down to lay. The second cock was mated to some specially-selected pullets of my own. The eggs were not subjected to the greater risks of the incubator, but were all hatched under hens, so that from these two pens, the pure French and the "Entente," I hope to build up a strong race of good layers with improved table qualities. One knows that such hopes are not always realised, but I am sure it is a step in the right direction to import fine, healthy stock from the native home of the breed where special attention is given to improving it.

## EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES,  
Large Eggs, Large Birds, Splendid  
Records and Stamina.

### FOR SALE

Stock Birds, all with individual records, to make room for young stock.

Cockerels, by son of Cam's Supreme, and other first-class Pedigree stock.

### TABLE BIRDS, MILK FED.

The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease.

Casualties from all causes under 8 per cent., including weaklings from incubators.

For Particulars and Prices, apply to—

**Brig.-General MACONCHY,**  
**EDENMORE, HOOK, HANTS.**

**BREEDERS' SPECIALITIES.****ALEXANDER'S  
PEDIGREE POULTRY.****W. Wyandottes & W. Leghorns.**

Stamina—Fecundity—Type.

**ROUGHTON via NORWICH.****E. BOSTOCK SMITH,**

Member of S.P.B.A., P.R.S. and N.U.P.S.

*Breeder of the Highest Class Pedigree  
Utility Poultry.***"HEASELANOS," HAYWARDS HEATH, SUSSEX.**

Phone—Haywards Heath, 82

White Leghorns.	Light Sussex.
White Wyandottes.	Mendels, Black.
Rhode Island Reds. S.C.	Black Leghorns.

**MELLIN & SKURRAY,**S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I. Reds (s.c.). White Leghorns.White Wyandottes.  
Black Leghorns.**F. J. HOUGHTON,**IVANHOE POULTRY FARM, FRITH END.  
Near FARNHAM.F. J. HOUGHTON wishes to point out  
that he is unable to fulfil any more orders  
owing to the Extension of his Farm this  
season. But asks prospective customers to  
place their orders Now for White Leghorn  
Sittings, Day-Olds, and Pullets for next  
season, and thus avoid disappointment.**Miss HARDMAN,**

Member, S.P.B.A. and N.U.P.S.

NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.**IF IT IS ADVERTISED IN****"EGGS"****You can depend on it.****WHEN WRITING ANY OF THE****ABOVE RELIABLE BREEDERS,****PLEASE MENTION "EGGS."****WHITE WYANDOTTES.**L. WILLIAMS,  
Easton Poultry Farm,  
GRANTHAM.

Speciality:

**STAMINA AND SIZE OF EGGS.****PEDIGREE WHITE LEGHORNS ONLY.**

WALTER PROCTOR,

Hares Hill Road White Leghorn Farm,  
HEYWOOD, LANCs.200 1920 and 1921 hatched Birds, laying:  
7s.-10s. 6d. and 12s. 6d. each.

Catalogue Free.

**F. C. TOMLINSON, M.S.P.B.A.,**Knott Hall Poultry Farm, Helpringham,  
Sleaford.

Breeder of High-Class Utility Stock.

White Wyandottes. Amcous.  
White Leghorns. Rhode I. Reds.  
and White Runner Ducks.Sittings from 7s. 6d. Day-Olds from 10s.  
Mating List Free.**MAJOR E. P. WIDDICOMBE.**

S.P.B.A., N.U.P.S.

Breeder of Highest Class Pedigree Utility  
Poultry.White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.SHIPHAY POULTRY FARM.  
TORQUAY, SOUTH DEVON.**Coaley Poultry Farm,**  
GLOUCESTERSHIRE.COALEY FAWN DUCKS still leading for  
7th month at Bentley. Eggs and Ducklings.  
Pullets, Cockerels, Stock Birds.White Wyandottes, Buff Orpingtons.  
White Leghorns, Light Sussex.  
Rhode Island Reds. Black Leghorns.E. BROOKE WRATTEN  
(Successor to Miss Edwards).**HOLMES and HOLMES,**

S.P.B.A., N.U.P.S., L.B.P.S.

T.A. FOXDELL, CHALFONT, ST. PETER'S.

Breeders of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds."FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.

Telephone: Chalfont St. Giles 54.

**EVERY MEMBER OF THE****S.P.B.A.****SHOULD TAKE ONE OF****THESE SPACES.****FRAMLINGHAM.**Pullets and Cockerels, January and  
February, March, April, 1922.  
White Wyandottes, hatched from proved  
two and three-year-old stock (Tom Bar-  
ron's strain). Records of four best third  
year hens, Nov., 1921, to end Jan., 1922,  
68-67-66-61. Their best April, 1921, daughters  
over same period, 81-77-76-76. White Leg-  
horns. Pen of 48 second year birds pro-  
duced from Nov., 1921, to end of Feb., 1922,  
3,104 eggs. Prices from 10s. 6d. each.  
Manager, "Broadwater," Framlingham.**R. J. HUBBUCK,**Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinchurst Poultry Farm,  
Headley, Hants.White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.Stock Birds, Day-old Chicks, Hatching Eggs,  
etc. High-Class Utility Stock.  
White Wyandottes. Light Sussex.  
Croad Langshans. R.I. Reds.  
White Leghorns. Black Leghorns.  
White Runner Ducks.H. W. HONEY,  
S.P.B.A., N.U.P.S., P.C., Etc.  
ALTON, HANTS.Manager, Tottenham Laying Test.  
Hon. Sec., Alton and District U.P.S.**K. E. FIELD-HART****WHITE LEGHORNS**

Breeding Mens for Sale in Sept.

**THE LIMBERLOST,  
HEATHFIELD, SUSSEX.****Mrs. HARRY KENT.**Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.  
Telephone: 23 Handcross.Exhibition and Pure-bred Trap-Nested  
Utility Poultry.  
LIGHT SUSSEX.WHITE LEGHORNS.  
BLACK LEGHORNS.Speciality.—Three Months' Old Pullets from  
15s.

Illustrated Catalogue Post Free.

**SEND ALONG YOUR ORDER.****A MOST****PROFITABLE INVESTMENT.****ONE OF THESE SPACES  
COSTS:**

13 weeks,	5s. 6d.	per Insertion
26 "	8s. 0d.	" "
52 "	4s. 6d.	" "

(Not less than 13 accepted)

## Classified Advertisements.

### PRÉPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	4
6 " " " "	6
9 " " " "	8
13 " " " "	8

### FOR SALE. PULLETS.

**BUFF ROCK** Pullets, January and February, 1922, from L2 birds (average 187 eggs); price 21s. each.—Worters, Uplands, Rotherfield, Sussex.

Ten **LEGHORN-CROSSED PULLETS**, laying; 8s. 6d. each.—McEniry, Wayside Poultry Farm, King's Langley, Herts.

February and March hatched **RHODE ISLAND REDS**; March and April hatched **BLACK LEGHORNS**; price 10s. each; particulars of strain given.—Sicklehatch Farm, Horeham Road, Sussex.

20 Tom Barron **WHITE LEGHORNS**, all trap-nested; hatched March, 1921; in full lay; 20s. each; room wanted.—Harry Woodroof, S.P.B.A., South Lodge, Bishops Stortford.

R.I.R. Pullets, 1922, March hatched, 12s. 6d. each (Golden's). **WHITE LEGHORN** Pullets, 1922, April hatched, 12s. 6d. each (Barron's).—Manager, "Broadwater," Framlingham.

**PULLETS**. R.I.R.'s, 3rd March, 3rd April (1922), £3 5s. Stamp, particulars.—Marhoff, 26, Athelstane Road, Bow, E.3.

Three months old.—R.I.R. **PULLETS**, Studd's National Winning Strain, from trap-nested hens, records 200-280; mated 281-299; price 10s. 6d. each. Also February and March hatched Cockerels; same strain; from 260-281 record hens; from one guinea.—Miss D. Hasler, Little House, Frinton-on-Sea.

**WHITE WYANDOTTES**.—Seven 1921 pure-bred Pullets, Barron's Competition strain; magnificent birds, in full lay. Accept 63s. Carriage paid.—Proctor, Main Street, Kirkby Muxtoe, near Leicester.

### WATLINGTON POULTRY FARM, OXON.

50 Early April-hatched 1922, **WHITE ORPINGTON** Pullets; 8s. each; in lots of 25; 7s. 6d. each. Carriage paid.

### PULLETS LAYING NOW.

R.I. **REDS** (Boucher-Crowley), W. **LEGHORNS** (Cam). All from trap-nested L2 stock; price £1 1s. each.—Mrs. Simpson, S.P.B.A., The Cedars, Sunbury, Middlesex.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS**.—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d.; Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16, by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

### HENS.

#### BLACK LEGHORN HENS

All hatched last year. Splendid birds. Upjohn-Metcalf: 12s. 6d. each. Carriage paid six. Room wanted.—Milestone Egg Farm, Patrinbourne, Canterbury.

**WHITE LEGHORN** Hens, must be cleared to make room. Carefully culled. Splendid stock birds. All hatched last year. 12s. 6d. each. Carriage paid six.—Milestone Egg Farm, Patrinbourne, Canterbury.

Stock Birds, 1920 and 21, **WHITE LEGHORN** and R.I.R. Hens; must be cleared for room for young stock, at from 5s. to 10s., according to age and records. Trap-nested and carefully culled for stamina, 12 birds or over, carriage paid.—Parsons and Sons, Ashmead Poultry Farm, Ash, Surrey.

#### COCKS AND COCKERELS.

R.I.R. Cockerels, February - March hatched; dams (Boucher); records 212-258, W.R., 45-65; sires, sons of Mr. Boucher's famous hens, 37 and 48; from 12s. 6d. now. Also booked for autumn delivery. White Silkie Eggs and Stock Birds.—Miss Simpson, Calibae, Killearn, by Glasgow.

**CROAD LANGSHAN** Cockerels (Joergens), February hatched; bred from prize winners; 8s. 6d.—Skinner, M.S.P.B.A., Oakley, Thame, Oxford.

R.I.R. Cockerels, March hatched, bred from same pen as my pullets, which won in Mollassine Laying Competition; trap-nested records to end of June 180; 10s. 6d. each. **WHITE LEGHORN** Cockerels, April, from Harper-Adams' winners; 8s. 6d. Reared on free range. Satisfaction guaranteed.—Wildman, Newbold Verdon, Leicester.

**WHITE WYANDOTTE** Cockerels, 1921, Edward Cam's strain, March birds, 21s. each.—Hardy, Bankside Poultry Farm, Thorne, Doncaster.

#### 1922 WHITE LEGHORN

Cockerels, early April hatched, guaranteed Barron and Snowden direct; 7s. each.—Bird, S.P.B.A., Hillcrest, Southborough, Tunbridge Wells.

1922 March-April hatched 50 **ANCONA** Cockerels (P. L. Johnson and Charles Lawson strain); also 30 **BUFF ROCK** Cockerels (J. H. Cooper strain); both specially selected for stock.—Mrs. Poston, Whitehall, Bordon, Hants.

Cockerels. — **WHITE LEGHORNS**, April hatched, Kenmore strain, from hens of 220 large egg record; 8s. each; three for 21s.; carriage paid.—W. Halls, The Laurels, Bowers Giffard, Pitsea, Essex.

**WHITE LEGHORN** Cockerels, May 6th, from Metcalfe Cockerels (bred from 240-286 egg hens, and sire's dam 230), mated, Metcalf Soole, 1920, hens, which laid 30-70 eggs before January 1st, 1921; 17s. 6d. Ditto, April, 12s. 6d. each. No B.W.D. on farm to date.—Miss Baird, Day's Farm, Malvern Wells.

#### COCKS AND COCKERELS.

Six January hatched **WHITE WYANDOTTE** Cockerels (Cam), 15s. Three 1921 **LIGHT SUSSEX** Cockerels, 21s. each.—Mrs. Munday, Mersham, Kent.

Finest Pedigree **WHITE LEGHORNS**. Three 1921 Cocks, Tom Barron direct, dam 250 12s. 6d. each. Also 1922 March-April hatched Cockerels, pure Barron, sired by 250, tested cock, 7s. 6d., 5s. each, carriage paid on three.—Burnett, City Gardens, Bainsford, Falkirk.

### WATLINGTON POULTRY FARM (Oxon.)

**WHITE LEGHORN** (Adams'), **WHITE WYANDOTTES** (Adams'), **RHODE ISLAND REDS** (S.C.), (Golden), March-April hatched. Fine birds, 8s. 6d. each; four for 30s.; only a few left.

#### BREEDING PENS.

Two Breeding Pens, White Leghorns: Two Breeding Pens, White Wyandottes: £4 per pen. Each pen contains nine 1921 Pullets and 1921 pedigree Cockerel. Cockerels direct from Ed. Cam and Metcalf. Full pedigree and trap-nest records of each bird. Also a few March and April, 1922, Pullets for delivery when three months old.—Warburton, Prinny Hill Poultry Farm, Haslingden, Lancs.

**AUSTRALIAN BLACK ORPINGTONS**.—Six 1921 Pullets and unrelated Cockerel, Bradley and Christie strains; perfect breeding pen, in splendid condition; accept 12 guineas, carriage paid.—Proctors, Main Street, Kirkby Muxtoe, near Leicester.

July, 19th, 1922.

## EGGS.

SELL 10 WHITE LEGHORN Pullets, 1922, February, Cam's best, and unrelated Cockerel, Hunter's; off winners; £10 lot.—Oldfield, Nook Cottage, Fowler Lane, Faringdon, near Preston.

## APPLIANCES.

### CHEAP TIMBER.

3in. x 4in. Sawn Boards, 1s. 1½d.; 4in. x 6in. P.T. and G. Beaded Matching, 1s. 6d.; 3in. x 4in. P.T. and G., v. jointed Matching, 1s. 9d. per sq. yard; 3in. x 2in. Batten, 4s.; 1½in. x 2in., 7s. 6d.; 2in. x 2in., 9s. 6d.; 2in. x 3in., 15s. per 100 ft. Pluvert Felt, 8s. per roll. All free on rail. Special quotations for quantities.—Shipley Fields Poultry Farm, Shipley, Yorks.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

## GRANULATED CHARCOAL.

Guaranteed Quality. half-cwt., 12s.; one cwt., 22s., carriage paid. Also Grits, Meals, etc. Samples free.—Bygrave and Co., Anwell, near Ware.

Hearson FOSTER MOTHER, £7; Hearson INCUBATOR, £3; both 60 chick size; very good condition. — Mrs. Poston, Whitehill, Bordon, Hants.

For Tents, Shelters, etc., Government Balloon (rubber) Sheeting, 1s. 6d. per yard super, carriage paid U.K.; sample free.—Q. W. Page, 5a, Grovenor Cottages, Eaton Terrace, S.W.1. Special terms for large quantities.

## EGG BOXES.

24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.

WORSSAM and ABBOTT,  
Pyrerott House, Chertsey.

## DUCKS AND DRAKES.

For Sale.—100 Fawn and White INDIAN RUNNER Ducks, bred from pen of ducks supplied by Rev. Seymour Shaw, which had flock average of 189 eggs each in their third season. Above Ducks all hatched between April and July, 1921, and have been laying well since January, 1922. Price 12s. 6d. each, £50 for the lot.—Riddell, Bragborough, Braunston, Rugby.

Wilson's RUNNER Ducks and ANOONA Fowls, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

AYLESBURY DUCKS.—Grand Ducklings, monster stock, week old; 15s. 6d.; fortnight, 17s. 6d. doz.; early 1922 Ducks and Drakes 6s. 6d. each. All carriage paid. — Balmer, Stapleford Tawney, Romford.

WHITE RUNNER Ducks and Drakes for Sale, Taylor's strain, 1922 hatched; 8s. 6d. and 10s. 6d. each. — Cartwright, Welland Valley Poultry Farm, Seaton, near Uppingham.

PAWN and WHITE RUNNER Ducks, 1922 Pullets (Unjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

## GOSLINGS.

Very Fine Full-grown GOSLINGS; 15s.; from a good white, laid 56 eggs last year, 48 this; carriage paid.—S. F. Skipwith, Loversal, Doncaster.

## PIGEONS.

UTILITY PIGEONS, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Colehill, Wimborne.

## RABBITS.

Lester Spurgeon, Wistler's Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for sale.

## FOODS.

MAIZE GLUTEN FEED offered at 10s. 3d. per cwt., on rail Ash, or 12s. 6d. cwt. on L.S.W. Railway or S.E. and C.R., under 50 miles, carriage paid; open for three weeks only. Cash, orders.—Parsons and Sons, Corn Merchants, Ash.

## MISCELLANEOUS.

SUSSEX FOWLS.—Mrs. M. A. Grant, Westlands, Horley, Breeder, Exhibitor, Exporter all varieties. Winners at all principal shows. Exhibition with best utility qualities a speciality.

WHITE WYANDOTTE Cockerels, March hatched, free grass run; healthy strong birds from Cam's good laying strains. Best, 15s. each; Seconds, 10s. 6d. each. — Godfrey, Abinger Hammer, Dorking, Surrey.

Free Delivery.—"Eggs and the Intensive World," 4s. 4d.; "The Feathered World," 4s. 4d.; "Meat Trades Journal," 4s. 4d.; "Poultry Keeping," 2s. 2d.—Jackson, Berry End, Knaresborough.

## FARM FOR SALE.

For Sale. POULTRY FARM, in Suffolk, two miles from railway, on main road. Consisting of eight-roomed House and Farm Buildings, 66 acres, over 2,000 head of stock. One of the most up-to-date Poultry Farms in the country, including best utility laying strains in R.I. Reds, White Wyandottes, White and Black Leghorns. The above is for immediate disposal as a going concern on account of ill-health. The buyer will be given every assistance for the coming season in matings, etc.—For full particulars, apply Box 105, "Eggs," 94, Farncombe Street, London, S.E.16.

## POULTRY FARM.

PRIME ORCHARD POULTRY FARM, 400 trees, eight acres, main road; 12-roomed modern; spring, soft water laid on. 250 head poultry and plant, outbuildings. £2,200. Possession.—Ackroyd, Laurels, Rushden, Northants.

## GOOD OPPORTUNITY FOR EX-SERVICE MAN.

For Sale.—200 Pure-bred LIGHT SUSSEX, WHITE WYANDOTTE, BLACK LEGHORN Cockerels and Pullets, Cook's strain direct; splendid birds; February and March hatched; together with plant; no reasonable offer refused. Illness cause of sale. Call or write for particulars.—Thompson, 13, Brackley Road, Beckenham, Kent.

To make room for young stock.—1921 Unmated Pullets, WHITE LEGHORN, Frost's strain; from 10s. 6d. each, in full lay. 1920 Barron-Metcalf WHITE LEGHORN Hens, 285 strain, at 7s. each, in full lay. 1921 WHITE WYANDOTTES, unmated, from 9s. each, in full lay. 1922 Cockerels, Frost's American WHITE LEGHORNS, from 3s. 6d. each.—Miss Keith, Pedigree Utility Poultry Farm, Tangley, near Andover, Hants.

## PADMAN'S PEDIGREE

WHITE LEGHORN Cockerels, April hatched, from two-year-old hens, with records 210 to 149, W.R. up to 60, sired by son of 270-egg hen, by son of 281-egg hen. All toe-punched to individual hens. Personally trap-nested, and all records guaranteed. Hens of good size, and all eggs well over 20ms. Send for details of prices, pedigree, and punchings, and see that you get what you order. From 7s. 6d.—Will Robinson, M.S.P.B.A., 60, Main Road, Denholme, Bradford.

PAYING GUESTS received, Poultry Farm, near sea; terms from 25s. weekly.—Box 115, "Eggs," 94, Farncombe Street, London, S.E.16.

PULLETS, March and April hatched, from 12s. 6d. each. LEGHORNS (Black, White and Brown); WHITE WYANDOTTES, REDS, INDIAN RUNNER and AYLESBURY Ducks, same age.—Mrs. Wilson, M.S.P.B.A., Minorea Farm, Denholme, Bradford.

## OYSTER SHELL.

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

## SITUATION VACANT.

EDUCATED GIRL Wanted, gentleman's family; country town, Ireland; help poultry, and indoors; maids kept. Modern conveniences; active, clean.—Box 114, "Eggs," 94, Farncombe Street, London, S.E.16.

## APARTMENTS TO LET.

Lady living lovely part Sussex, would let Furnished Rooms, with use of kitchen garden. — Box 113, "Eggs," 94, Farncombe Street, London, S.E.16.

## PUPILS.

PUPILS received. Personal tuition in Utility Poultry Farming; no fees. — St. James's Poultry Farm, Brackley.

## WANTED. PULLETS.

WHITE LEGHORN Hens Wanted; full particulars. — Box 101, "Eggs," 94, Farncombe Street, London, S.E.16.

February-March hatched, R.I.B. Pullets. —Full particulars, Monks Farm, Oakwood Hill, Surrey.

Wanted.—Six Pure CROAD LANGSHAN Cockerels, this year hatched, 1922. Send full particulars, approval, deposit.—Hawthorn, M.S.P.B.A., Coalville.

## SITUATION WANTED.

PUBLIC SCHOOL MAN, aged 35, single, seeks Position Working Poultry Manager, where good results are expected. Experienced in all branches abroad and at home. —H. B. H., c/o Lennard, Pondtail Poultry Farm, Fleet, Hants.



**PALMER'S PURE FISH MEAL.**As used by the Ministry of Agriculture, and also the "Bally Mail,"  
N.U.P.S. Bentley, Harper-Adams, and Munster Laying Competitions.

Dear Sir,—I cannot claim to have used every other make of Fish Meal, but I have tried a good many, and am satisfied that your Meal possesses that something "different," placing it in an altogether higher category than other makes. Apart from its beneficial effects on the egg-return and health of the birds, it keeps so wonderfully well. I am moved to write in this vein because I have reared about a thousand R.I.R. Chickens and White Runner Ducks this year, some of which had your Fish Meal, while others did not. The former made very much better progress than the latter and can be picked out quite easily at the present time.

Leysdown, Kent July 22nd, 1922.

(Major) E. W. GREGORY.

£16 per ton, £8 2s. 6d. per  $\frac{1}{2}$  ton, £4 2s. 6d. per  $\frac{1}{4}$  ton.  
Carriage forward from Hull. 23s. per cwt., 12s. 6d. per  $\frac{1}{2}$  cwt. 7s.  
per  $\frac{1}{4}$  cwt., carriage paid. FISH GRAINS THE SAME PRICE.

CHICK FOODS

LAYING MEAL

SUSSEX GROUND OATS

BISCUIT MEALS

WAFFER MEAL

PURE TONIC SPICE

**Fish Meal or Fish Grains 23/- per cwt.**

Carriage paid England and Wales, and to ports.

FLINT

LIMPET

OYSTER and MIXED SHELL.

COCKLE

OYSTER

Send a postcard for Samples and Literature to—

**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY.**

**You order to-day,  
WE DESPATCH TO-MORROW.**

Foods exactly as fed to 3,000 Head of Stock  
on our own farm.This is essentially a guarantee you get  
foods, proved by practical experience over  
many years.

	cwt.	s.	d.
V.C. Chick Feed No. 1	25	0	0
V.C. Chick Feed No. 2	24	0	0
V.C. Rearing Meal	25	0	0
(Mix with 1-3rd Midds. and Bran)			
V.C. Laying Meal	22	6	0
(Mix with $\frac{1}{2}$ Midds. and Bran)			
V.C. Laying Dry Mash	18	0	0

ALL CARRIAGE PAID.

**"V.C. NOSHELLAC"  
LIMESTONE GRIT.**

(Now practically free from dust).  
Contains large proportions of essential  
phosphates necessary for welfare of both  
bird and egg.

ONCE TRIED. ALWAYS USED.

The Cheapest of all Grits and the Best.

(No oyster shell or flint required).

1 cwt. Bags	3s. 6d.
10 cwt. Bags	32s. 6d.
20 cwt. Bags	65s. 6d.
40 cwt. Bags	129s. 6d.

Free on Rail, Maidstone.

Ask your dealer to stock it.

**VENN CARR,**

Dept. 9,

Maidstone Poultry Farm,  
MAILSTONE.A Free Booklet, "How to Make Your Fowls  
Pay?" to each Customer, or 1s., post free.**W. MASON, M.S.P.B.A., P.C.,**

Littledale Poultry Farm, Halam,

Near SOUTHWELL, NOTTS.,

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
various ages in White Leghorns, White  
Orpingtons, White Wyandottes, Light  
Sussex, Anconas (s.c.), R.I.R. (s.c.)

Inspection Invited. Cash or Deposit.

**West Mersea Poultry Farm,  
ESSEX,**

Nr. COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.****Room Wanted for Young Stock.**I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.Price: 12s. 6d. each, or Six for £3 6s. 6d.  
Carriage paid.

All birds sent on approval, four days

Further particulars as to Egg Records  
etc., with pleasure.**THE MISSES RANSFORD****White Leghorn Stud Farm.**All Stock trap-nested and kept on free  
range.1922 List of COCKERELS bred from  
Individual High Record Hens.Giving full pedigree and records now  
ready. Splendid quality offered.

**PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.**

**THE POULTRY KEEPERS' TIME AND  
LABOUR SAVING DEVICE**

**CHANT'S PATENT AUTOMATIC  
RE-SETTING  
TRAP-NEST.**

This Trap Nest saves a considerable  
amount of the poultry man's time by  
separating the layers from the non-layers  
without any attention whatever, it being  
entirely automatic in action.The trap nest is placed between two pens  
with the entrance towards the first pen  
containing all the hens. One hen only can  
occupy the nest at one and the same time  
if she does not lay an egg she is free to  
return to the first pen, thereby allowing  
another hen to occupy the nest. Directly  
an egg is laid the entrance door is closed  
automatically, and an exit door opened to  
allow the hen to pass into pen No. 2, and  
in doing so she automatically closes the  
exit door and re-opens the entrance door  
thereby resetting the Trap Nest for the  
next hen. Price £2 10s. Carriage forward

G. N. CHANT,

(Inventor and Patentee)

115, AUCKLAND ROAD,  
ILFORD, ESSEX.

**GOOD REASONS  
WHY YOU SHOULD  
SUBSCRIBE TO  
"EGGS."**

1. It is published not for  
financial gain, but solely  
in the interests of the  
Poultry Industry.
2. The Council of the  
S.P.B.A. only desire to  
meet working expenses.  
They have no share-  
holders clamouring for  
dividends to face.

Come then and share their  
knowledge.

Help us to help you.

# HARD LABOUR for LIFE'

is the grim sentence for certain grave offences against the welfare of the community.

Oddly enough "Hard labour for Life" is the sentence you, Mr. Poultryman, pass on the occupants of **your** prison (poultry) yard.

Nor do you stop at that, for if they do not lay enough eggs to please you, **you** kill them! The criminal has the advantage.

Now suppose you give this season's growing pullets the chance to please you with more eggs, and for a longer time. (The "done at two years" hen does not **really** pay, and every sane man, who is not a dealer, knows it.)

It will pay you to remember that a hen's egg-laying capabilities are exhausted far sooner than they need be if she misses the natural mineral ingredients of her food, which she would get for herself if running free. This applies equally to the modern heavy laying duck.

Now you can supply all these fully, in **one** way, by the use of the vitamine forming, vegetable product Salubrene, which is richer in the vital mineral salts than any other known substance.

Salubrene represents, and embodies, a scientific fact. Wise men grasp at the rock of science, and save themselves from disaster; only fools trust to straws.

# Salubrene

*Corn Merchants keep Salubrene in packets at 1/3 each.*

*We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.*

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

**A month's supply for 20 birds post free 1/6**

**Full instructions for feeding Salubrene to chickens, layers and breeding pens free.**

**Successful Poultry mashes for all purposes free for card.**

Write to—

THE

**ALGIN COMPANY, Ltd.,**

(Desk E),

**12, Norfolk St., Strand, London, W.C.2.**

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank."



## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 8th May).

**DRIED BUTTERMILK - 20/- per cwt.**

We are also able to offer a limited quantity of

### SWEETENED CONDENSED MILK

(Invaluable for Poultry, Pigs, Calves, etc.) at the low price of

**8/- per Case (48 fourteen oz. tins in a case).**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

### THE AUTO- SPRING NEST FRONT

Prov. Patent.

Set instantly with one hand, for trapping or fixed open. Adjustable for any breed. Clear entrance, and quiet, reliable action. Sample, 4s. 3d.; 3 for 11s. 6d.; 12 for 42s. All Carriage Paid. **REV. N. BURGESS,** Knighton-on-Teme, Tenbury, Worcs.



### The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

## W. A. BAINBRIDGE,

**Keyneston Manor Poultry Farm,  
BLANDFORD.**

White Wyandottes. Rhode Island Reds (S.c.)  
Light Sussex.

Sittings of first-grade eggs from L2 birds, mated to Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied*

**THREE-MONTHS PULLETS.** Day-old Chicks. Cockerels from large egg, high record L2 Hens.



## Biscuit Meal— plays a big part in the Feeding Menus of England's Most Successful Poultry Farmers.

Mr. R. H. BERNEY, M.A., of Harpenden, writes—"Your Biscuit Meal forms the basis of all mashies from the first to the last day in the lives of my birds. Diarrhoea is almost unknown here. I cannot imagine a lower mortality or more vigorous chicks than at this farm."

Mr. SIMON HUNTER says:—"In all my forty years at chicken rearing I have not found anything that can take the place of Biscuit Meal for rearing strong, vigorous chicks."

## SPRATT'S Poultry Meal

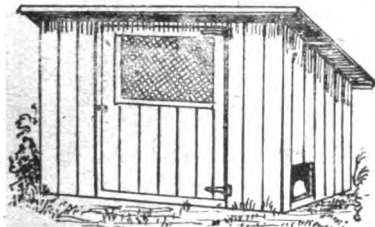
And SPRATT'S CHICKEN (BISCUIT) MEAL are obtainable from all dealers in sealed bags.

**SPRATT'S PATENT Limited,**  
24, Fenchurch Street, E.C.3

# SPECIAL ANNOUNCEMENT!

At the suggestion of Mr. E. Bostock Smith, who has favoured us with several orders, we have decided to place before the readers of "Eggs" our many and popular lines of Poultry Houses, Appliances, Sheds, and Portable Buildings, also Wire Netting, Timber, etc.

Our Weekly Advertisements will be worth Watching. The Special Lines for this Week are the following—



THE "VALUE" COCKEREL BOX.

3ft. 6in. long, 2ft. 4in. wide, 2ft. 6in. high. Strongly made of BEST QUALITY tin. Matching, on strong framing, in complete sections. Hinged Door, Wired Window, Sliding Trap Door, complete with Bolts and Screws for erecting.

Price, 21/6. Carriage Paid to your Station.

A most useful Small House for All-the-Year-Round use. For rearing a brood of Chicks or Ducklings. For a Cockerel Box for one or two birds in the autumn, or for a pen of Bantams. It cannot be excelled at the price. Being Portable, it is easily moved.

Creosote, Best Quality Nut Brown, 55/- per 40 Gall Cask.

"Lasto" Wood Preservative, Nothing Better, 40/- per 40 Gall Cask. Free on Rail Redhill.

Write now for our Catalogue.

**THE SURREY VALUE CO.,**

GARLANDS ROAD, REDHILL. 'Phone 290.

The House for

## QUALITY

Buying your foods from the house where QUALITY is a first concern, is THE ONE WAY to secure the results you desire.

## S. S. Chick Feed

—the finest Dry Feed obtainable—furnishes a special example of the wonderful results obtainable from QUALITY FOOD. Made to the Formula of the Rev. Seymour Shaw, it is a food of the highest nutritive value, producing CONSISTENT GOOD RESULTS.

### ANALYSIS:

FOOD UNITS: 106.

NUTRITIVE RATIO: 1 to 7.

FIBRE ONLY: 2 1/2 per cent.

Price 21/- per cwt.

Carriage Paid to Station, and Sacks Free.

Make it a point to test this QUALITY Feed to-day. Order a sample bag through Secretary, S.P.B.A., and get your discount.

**THE SERVICE FOOD COMPANY,**

The House for Quality.

VICTORIA MILLS, GRIMSBY.

I am now Booking Orders for Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by a son of Mr. E. C. B. Boucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. I have no other breed of hens, as I long since came to the conclusion that the Rhode Island Red is the Best Dual Purpose Bird in the World.

I shall have for disposal also White, Black, Fawn, Fawn & White, Khaki-Campbell and Coaley Fawn Ducks of my own strains and the Finest National Bentley Laying Test Blood which can be booked for delivery during the Autumn, at three or six months' old, and a few Special Drakes from Dams which have recorded up to 360 Eggs in the year.

## A. HAROLD PAINE,

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

The Chalet, Burgess Hill, Sussex.

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris Newbury.

Once again Offers for Disposal EGGS AND STOCK BIRDS

from his

PEDIGREE LAYING STOCK.

SPLENDID SELECTION OF COCKERELS and 1921 HATCHED HENS.

in following breeds at 15/- each.

if not approved in three days birds will be exchanged or cash refunded.

Croad Langshans, Sal. Faverolle, Houdan, White Wyandotte, Silver Campine, Ancona, Light and Speckled Sussex, R.I. Red, R.C. and S.c. Black, White and Brown Leghorn, Buff and White Orpington.

Eggs, 6/- per doz.; 45/- per 100. Guaranteed 90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-Campbell Ducks, Eggs 8/- doz. Drakes, 15/- each.

White Runner and Fawn Runner Ducks. Eggs, 8/- doz. Drakes 10/- each.

All Goods carriage paid to any part of the British Isles.

LIST FREE.

## Birkenhead Horticultural Show,

18th and 19th AUGUST, 1922.

## Live Poultry Section.

ENTRIES CLOSE 5th AUGUST.

Schedules from:—

J. BENJ. GILL, Hon. General Secretary, Town Clerk's Office, Birkenhead.

## BARNVELDER FOWLS.

I am selling every day with great success this popular fowl, also Chicks of all ages and eggs.

On request I will quote prices delivered free and send testimonials from satisfied customers. Also various kinds of Swans, Peafowl, Pheasants, Waterfowl, Cormorants, Herons, Spoonbills, Seals, Herons, etc. Price List on receipt of three penny stamps for postage; 3d. stamp to Holland.

G. VAN HECK,

129a, Amsteldyk, Amsterdam, Holland.



The WORLD'S RECORD WYANDOTTE (Midland Test, 1920-1921)  
was reared on

## H. A. HUSSEY'S SUPER CHICK FOODS.

Mr. H. W. Honey, Alton, Hants (Breeder and Owner of Score-card Marvel, the remarkable White Wyandotte pullet, which laid 315 eggs in 11½ months, thus putting up a World's Record for W. Wyandottes and a British Record for all breeds), writes:—  
"I consider that good feeding is essential for successful chicken-rearing, and always use the best procurable. . . . All my birds are brought to Maturity on your foods, etc. . . ."

H. A. Hussey's Super Chick Foods are made to a high standard of QUALITY. They contain just those ingredients which have PROVED THE BEST by long experience and tests. These Foods will enable YOU to rear all rearable chicks to robust maturity

### H. A. HUSSEY'S EGG PRODUCERS.

	o.wt.	½ o.wt.		o.wt.
	s. d.	s. d.		s. d.
H.A.H. Super Chick Food...	27 0	14 6	Record Laying Meal (for use with	24 0
No. 2 (for one month old)...	23 0	12 6	50 per cent. Midds. and Bran) ...	24 0
Large Chick Food .....	23 0	12 6	H.A.H. Complete Mash .....	24 0
Chick - Rearing Meal "A" .....	25 0	13 6	Dry Mash (T. Newman's Formula) ...	18 0
(First month) .....	25 0	13 6	Special Poultry Grain (Machine	21 0
Chick - Rearing Meal "B" .....	25 0	13 6	Cleaned) .....	16 0
Chick Dry Mash .....	25 0	13 6	No. 2 Poultry Grain (Machine	
			Cleaned) .....	

Carriage paid England and Wales. Sacks Free. Prompt dispatch. Samples, 2d. Stamp. 1s. less 5 owt. lots. Cash with order or deposit system. Special Quotations for Maize Germ Meal, Maize Gluten Meal, Oatmeal, etc., etc., on application, stating quantity required.

**HUSSEY BROS., Dept. E (H. A. HUSSEY, S.P.B.A., F.N.U.P.S.)**  
515, Seven Sisters Road, TOTTENHAM, LONDON, N.

## G. A. TOMLINSON,

Clayton Poultry Farm,  
NEWCASTLE, STAFFS.

Specialist Breeder of **BLACK LEG-HORNS, WHITE LEGHORNS, and WHITE WYANDOTTES.** Flocks of **FAWN AND WHITE INDIAN RUNNER** and **KHAKI-CAMPBELL DUCKS** also kept.

**BLACK LEGHORNS. NATIONAL TEST** for the last two months have headed the monthly report in Section 6.

Stock Birds for Autumn Delivery now being booked.

Satisfaction Guaranteed on the "Money-Back" Basis.

**BREEDER AND EXHIBITOR OF PEDIGREE LARGE BLACK PIGS.**

Our SPECIALITY is the making of **DRY MASHES, CHICK AND POULTRY FEEDS** to Customers' own requirements. We also make with the best ingredients.

Newman's Chicks Mash: 11s. 6d. owt.  
Newman's Chick Feed: 19s. 6d. owt.  
Newman's Poultry Mash: 15s. 6d. owt.

We supply everything required for the Poultry Keeper. For example: Midds., 11s. owt.; Broad Bran, 12s. 6d.; Ordinary Bran, 10s. 6d. etc.

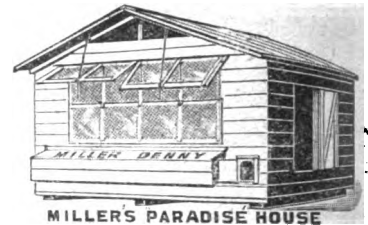
Before purchasing elsewhere mail your requirements to enable us to quote and send Samples.

Bags Free and Free on Rail. Cash with order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HALL, "HADLEIGH," ESSEX.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



For Twenty Years  
**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, every time. . . . His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER,**  
DENNY, SCOTLAND.

PURE SWEET STERILISED BLOOD.

**RENTOX (Regd.)**

7 lb. bag sent post free for 1s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.**  
BORDESLEY STREET,  
BIRMINGHAM.

## AFTER ALL,

What you require is Plain, Wholesome, Nutritious Foods, which will give the maximum profit with the minimum outlay.

**HERE YOU ARE, THEN!**

	per owt.
	s. d.
Kibbled Maize	12 0
Wheat	16 0
Clipped and Screened Oats	14 0
Barley Meal	12 0
Maize Meal	10 0
Sharps (Splendid Quality)	9 0
Broad Bran	12 0
Middlings	14 0
Bean Meal	12 0
Maize Germ Meal	12 0
Maize Gluten Feed	15 0
Poultry Mash (Newman)	14 0
Chick Mash (with Bran)	18 0
Chick Mash (without Bran)	14 0
Flaked Maize	20 0
Biscuit Meal (Graded)	20 0
Biscuit Powder	20 0
Oyster Shell	3 0
Limestone Grit	3 0

Bags free, F.O.B.

Also Clover Meal, Fish or Meat Meal, "Bycolla," Maize Flour, Duck Meal, Dried Yeast, Peat Moss, Charcoal, Izal Powder and Fluid, Wire Netting, Felts, Drinking and Feeding Troughs, etc.

Write or 'Phone. 'Phone 51.

**FRANK SHEARN & CO., LTD.,**  
MIDSOMER, NORTON, SOM.

## RATSTICKER DESTROYS RATS QUICKLY.

The non-poisonous varnish which causes natural death within a few minutes. Safe, certain, and continuous trap, recommended by Dr. Howarth, City of London Medical Officer.

Sole Manufacturers:  
**B. WINSTONE & SONS, LTD.**  
(Dept. W).  
100-101, Shoe Lane, London.  
E.C.4.  
Obtainable from all Chemists.



Full Instructions  
with each Tin.

Small for Mice,  
per 1/4 tin.

Medium for Rats,  
per 2/3 tin.

Extra Large for  
Rats,  
per 3/3 tin.

Post Free.

## EGGS.

**Weston Coyney Hall, Longton, Staffs.**

**WHITE WYANDOTTES. RHODE ISLAND REDS (s.c.)**  
**WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Bacillary White Diarrhoea.

**All young stock reared on Free Range. 60 Acres Grass and Woodland.**

**SPECIAL QUOTATIONS FOR COCKERELS.**

**3 MONTHS-OLD PULLETS, from 10/6 each.**

**LIMITED NUMBER ONLY FOR SALE**  
in White Leghorns, White Wyandottes,  
Buff Orpingtons, Buff Rocks, and R.I.  
Reds, 12/6, 15/- each.

**LIST POST FREE, and Customers are requested to order at once as orders cannot be accepted when certain number booked.**

**Also Few 1921 Birds.**

**Prices on Application.**

**C. D. CHEESEBROUGH,**  
*Carlton, near Nottingham.*

**(We Pay Carriage.)**

Compare our prices with others. We can supply well-seasoned NEW Timber for the following rates:—

Following Rates:—			
1in. x 4in. T.G.B.	8s. 3d.	1in. x 5in. Sawn Bds.	12s. 6d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 2in. Battens	3s. 6d.
1in. x 5in. T.G.B.	11s. 6d.	2in. x 1in. Battens	5s. 6d.
1in. x 5in. T.G.B.	12s. 6d.	2in. x 1 1/2in. Battens	7s. 3d.
1in. x 5 1/2in. T. & G.	15s. 6d.	3in. x 1in. Battens	7s. 3d.
1in. x 6in. Sawn Bds.	7s. 6d.	3in. x 2in. Battens	14s. 6d.
1in. x 6in. Do.	8s. 6d.	3in. x 1 1/2in. Battens	11s. 6d.
2in. x 2in. Pitch Pine Posts,	12s. 6d.	2in. x 3in. Pitch Pine Posts,	18s. 6d.

per 100 running feet. Carriage Paid to nearest Goods Station. Cut to lengths or multiples. Cash with order. Special Terms for large quantities. When ordering please state nearest Railway Goods Station. Having now installed a new plant we can give delivery at once. We also supply Roofing Felt. Other sizes quoted for on application.

# RUSH & PARK.

**Dept. F, Timber Merchants, Claremont Road  
Sawmills, Seaforth, Liverpool. Tel.: 624 Waterloo**

**1922-23.**

## Extended Classification

## PULLETS, 10 Sections.

**13, Special Prizes, including Challenge Cups and Trophies. Also Medals in each section.**

**DUCKS, 6 Sections.**

**Seven Silver Cups. Also Medals in each section.**

## Entries Close—

**DUCKS - 1st Aug.**

**PULLETS - 11th Sept.**

For Particulars and Entry Forms apply—  
HON. SEC.

**G.E.R. Farm,  
Bentley, SUFFOLK.**

**AT LAST!** The Egg Box everybody has been looking for.

The "INSURANCE" Egg Box (Patent Applied for) made especially for the post, of three-ply wood, in two sizes only, for 12 and 24 eggs. For efficiency, the CHEAPEST, SAFEST, SMALLEST, and LIGHTEST box on the Market.

**The Eggs cannot be broken.**

Prices.	per Box.	12 Boxes.
<b>For 12 Eggs</b>	<b>2/-</b>	<b>23/-</b>
<b>For 24 Eggs</b>	<b>3/4</b>	<b>38/-</b>

### **Reductions for Larger Quantities.**

Post. box for 12 eggs, 9d. for 2; 1/- for 5. Post, box for 24 eggs, 9d. for 1; 1/- for 2.  
Larger numbers, carriage forward by rail. Terms: Cash (to include postage) with order.

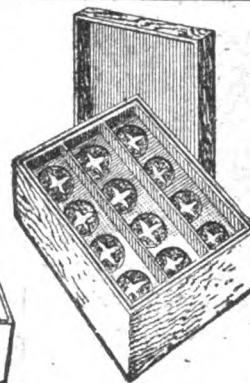
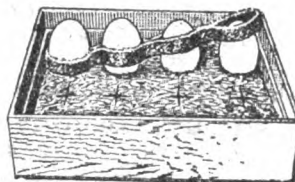
The "INSURANCE" Special Egg Box (Patent applied for) for valuable sittings. No packing required, and it is impossible to either break or jar the Eggs. The Box will last for years. Price, 12/6, post free, 13/9.

Extract from a letter from one of the most prominent Poultry Farmers in the Country:—"I consider both types (of boxes) will serve their purpose admirably, and think you have got hold of a real good thing in egg boxes. I have given them both a thorough test, and failed to break an egg inside them."

## Agents Wanted.

# THE "INSURANCE" PACKING CO., LTD.,

(Dept. E.) **82, WESTBOURNE GROVE, LONDON, W.2.**



**Mention "EGGS" when replying to Advertisements.**

**AMERICAN OYSTER SHELL,****Special offer.**

1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 7s. Cash with order. Free on Rails, Liverpool.

**THE BRITISH AMERICAN SHELL GRIT Co.,**

Bank Chambers,  
282, MARSH LANE, BOOTLE, LIVERPOOL.

'Phone: 686 Bootle.  
Telegrams: Poultry, Liverpool.

**UP-TO-DATE BOXES  
(WOOD),**

**For EGGS &  
CHICKS**

Carry hundreds  
of  
**EGGS  
and  
CHICKS**  
safely every season.

If you wish to eliminate your losses caused by faulty boxes, do not fail to give our boxes a trial.

Illustrated List Free. Prices as cheap as cardboard boxes.

Special Discount to S.P.B.A. Members.

W. and T. MARKHAM (Dept. A.),  
QUENIBOROUGH, LEIC.

## **DR. J. H. BALDWIN,**

### **SPRINGFIELD P.F. WIMBORNE, DORSET.**

**ONLY THE VERY FINEST STOCK in**

**White Leghorns,**

**White Wyandottes,**

**R. I. Reds (s.c.)**

**Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.**

If you get them from "Hometrust"  
it means **SATISFACTION.**

**ANCONAS, LIGHT SUSSEX,  
and The Adjustable Trap-Nest Front**  
(Prov. Pat.) Sample, 3/6.

**VICTOR P. WILLIAMS,**  
Hometrust Poultry Farm, BEXHILL, SUSSEX.

Oyster Shell, English or Per Cwt.  
American Graded - - 7/-  
Kent Blue Sharp Flint - 3/6

Free on Rail; Reduction 1 ton and upwards  
Send 3 stamps for samples.

**F. G. BRANTON, Grit Manufacturer.**  
GREENHITHE, KENT.

**ALL your Poultry want is here—  
in the natural ingredients of**

# **PULBIS Poultry Food**

a complete food, as vital to the health and growth  
of your poultry as natural foods are to man.

## **PULBIS POULTRY FOOD**

**IS GUARANTEED TO BE UNADULTERATED** by any injurious  
spice or condiment which form the most part of many so-called  
laying meals. PULBIS contains no superfluous ingredient  
added merely to make bulk, and there is no dust or waste.

**EVERY GRAIN of PULBIS  
IS PURE FOOD!**

From all Corn Merchants, etc. Sold in  
two sizes, suitable for chicks or adult birds:

and in  
larger or  
smaller  
quantities.

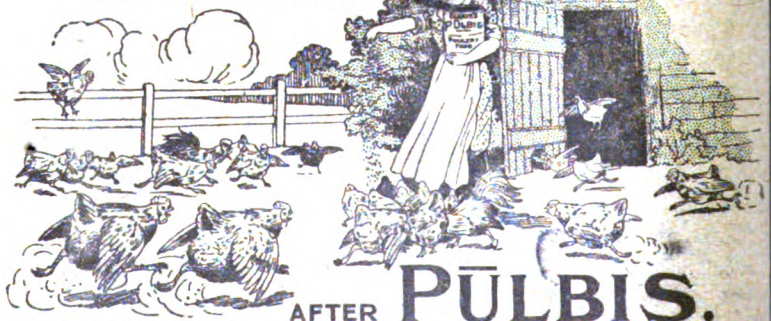
**3½ lb. Bag 1/-**

**7 lb. Bag 2/-**

use the  
Coupon  
for free  
Sample.

Made by the Manufacturers of the Perfect Dog Foods  
**MELOX and MELOX MARVELS.**

### **THE POULTRY RUN**



**AFTER**

# **PULBIS.**

## **A Free Sample awaits you.**

**W. G. CLARKE & SONS, Ltd.,**  
Limehouse, London, E.  
Please send me, post free, Sample  
of PULBIS POULTRY FOOD and  
also your book on "Poultry Culture."

Name .....

Address .....

Dealer's Name .....

Address .....

**Post the Coupon to-day.**

Open envelope, ½d. Stamp.



Wednesday, July 26th, 1922.



# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

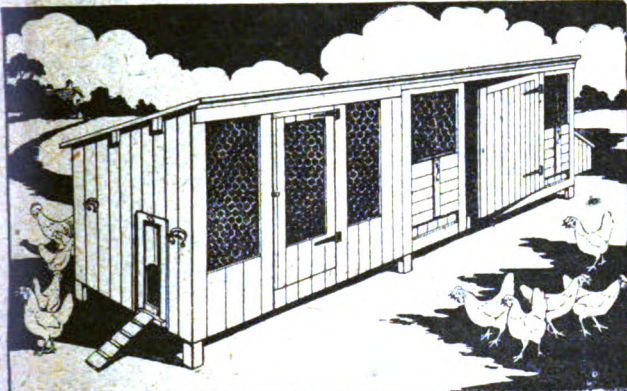
(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI. No. 4. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## The "LAURETTA" Poultry House and Run.



The "LAURETTA" is made on a strong frame, to which is attached to form walls and roof—best Swedish 3-in. Deal Boards, which are V-jointed, tongued, and grooved, and nicely planed. The strongly-made doors are hung with stout hinges and the one to the roost is fitted with press lock and key. The up-and-down sliding shutters are suspended on strong chains. The roost is divided from the covered run by a strong Deal partition. Handles for lifting. Two strong perches, and bolts and spanners for erecting. It is sent out in sections ready for putting up.

Price only **£7 5 0** If without nests, £6 12s. 0d.

Size: 12ft. long, 4ft. wide. Height, 5ft. from ground. No extra for Floor. Carriage paid to any station in England and Wales. Prompt despatch. If pickled the cost is 1/6 in the £ extra.

## The "DELTA"

Non-Clog Dry Mash Hopper. Rat Proof.

No. 1 is 18in. x 8in.

No. 2 is 18in. x 12in.

No. 3 is 18in. x 18in.

Price: No. 1, 8/6, 3 for 23/6, 6 for 44/6,

12 for 85/6.

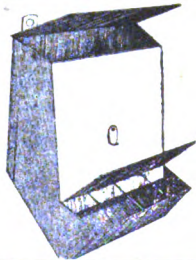
No. 2, 10/6, 3 for 30/6, 6 for 58/6, 12 for

109/6.

No. 3, 13/3, 3 for 38/6, 6 for 72/6, 12 for

137/6.

Carriage Paid Passenger Train.  
Prompt Despatch.



## Special Offer of BEST QUALITY NEW SWEDISH RED DEAL TIMBER, Bright and Clean.

4in. by 3in.	Matched, tongued, grooved and V-jointed				6/5
	planed boards				7/2
4in. by 3in.	ditto.			ditto.	
	Per 100 feet run.				
	Best Swedish and Finnish Imported Battens.				
	Per 100				Per 100
	feet run				feet run
3in. by 2in.	at	3/6	2in. by 1 1/2in.	at	7/-
1in. by 2in.	"	4/-	2in. by 2in.	"	8/-
4in. by 3in.	"	4/6	2in. by 3in.	"	12/-
4in. by 3in.	"	5/6	2in. by 4 1/2in.	"	17/-
4in. by 1in.	"	7/6	4in. by 2in.	"	16/-
3in. by 1in.	"	6/6			

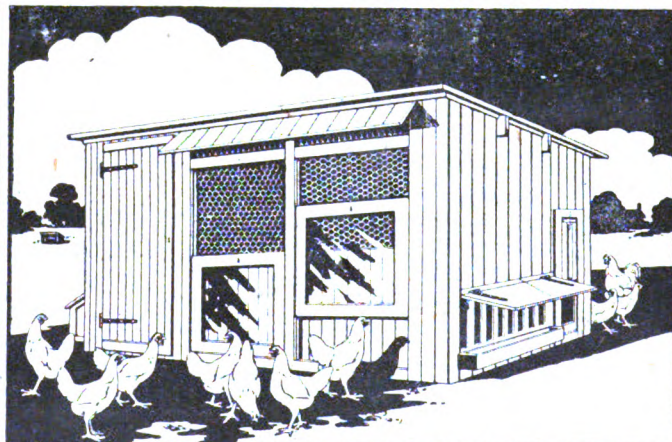
All above Free on Rail, Martock. Prompt Despatch.

## GALVANISED CORRUGATED IRON SHEETS.

Length	5ft.	6ft.	7ft.	8ft.	9ft.	10ft.
1st Quality	2/4	2/9	3/1	3/6	4/-	4/6
2nd Quality	1/7	1/10	2/1	2/4	2/7	2/10

2ft. 2 1/2in. wide.  
Carriage Forward and Promptly Despatched.

## The "EXCELSIOR" Semi-Intensive House.



Made of best 3in. V-jointed, tongued, and grooved Best Swedish Deal. It is specially suitable for semi-intensive work, and is for this purpose used by thousands of poultry-keepers all over the country. It is provided with a strong perch the whole length of house and a wide dropping board below it.

No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 6ft. wide, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

PRICE: No. 1, £7 16s. 0d. Floor 28/- extra.

PRICE: No. 2, £10 6s. 0d. Floor 41/- extra.

Carriage paid to any station in England or Wales. Prompt despatch. If pickled with Preserolium the cost is 1/6 in the £ extra.

**HARRY HEBDITCH, Ltd.,** The Poultry Appliance Works,

(Desk J), **MARTOCK, SOMERSET.**

Send for the Catalogue of all Poultry Keepers' Requisites.



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

## Can Any Firm wish for Better Testimony?

Letter No. 61.

6, Clodien Avenue,  
Heath,  
CARDIFF.  
16th May, 1922.

Messrs. Priest and Shaw,  
SANDOWN, I.O.W.

Dear Sirs,—

I herewith acknowledge receipt of 12 White Leghorn Chicks to-day. They arrived in fine condition, all being alive and very healthy.

I take this opportunity of tendering my thanks to you for the way you have treated me, and have pleasure in acknowledging your kindness and straightforwardness in the matter.

Again thanking you.

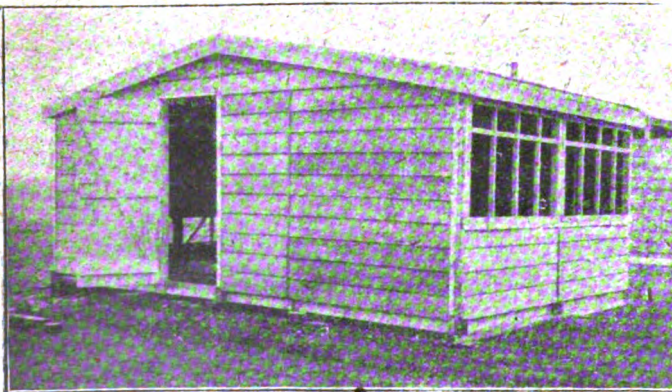
Yours faithfully.

A. SCOTT.

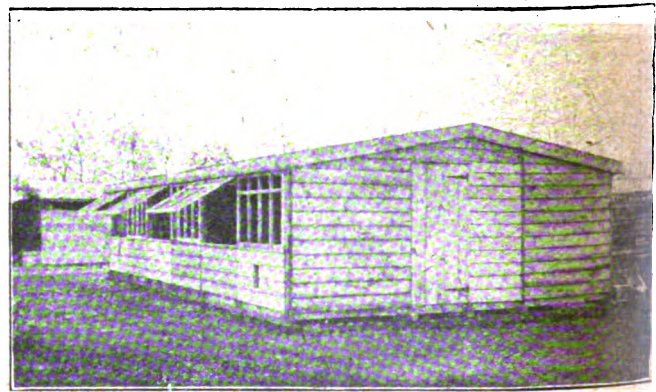
Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### EXTENSIBLE UNIT BUILDINGS.



Two Units—10ft. x 15ft.



Enlarged to Six Units—30ft. x 15ft.

### CONVERTIBLE SPAN-ROOF HOUSES (for Poultry and Domestic Use)

Above pictures show start with a Two-Unit House=10ft. x 15ft., which has been enlarged to Six Units=30ft. x 15ft. A section of the latter has been used as a Brooder prior to conversion—a portion for Rearing, another portion for Laying. All panels, doors, and sashes can be moved from eave to gable sides. This feature can be supplied to any desired depth, height, and length of house.

State full requirements when applying for data.

SPECIAL NEW DESIGNS FOR BREEDING PENS, ALSO FOR STRICTLY INTENSIVE WORK, ON NEW ENGLISH AND AMERICAN PLAN.

Members' Houses covered by Insurance against Fire, free of extra, for first 12 months.

PARTICULARS FREE.

# W. H. COLT, M.S.P.B.A., BETHERSBEN, KENT.

M.N.U.P.S.,

I am now Booking Orders for Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by a son of Mr. E. C. B. Boucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. I have no other breed of hens, as I long since came to the conclusion that the Rhode Island Red is the Best Dual Purpose Bird in the World.

I shall have for disposal also White, Black, Fawn, Fawn & White, Khaki-Campbell and Coaley Fawn Ducks of my own strains and the Finest National Bentley Laying Test Blood which can be booked for delivery during the Autumn, at three or six months' old, and a few Special Drakes from Dams which have recorded up to 360 Eggs in the year.

### A. HAROLD PAINE,

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

The Chalet, Burgess Hill, Sussex.

### SPECIAL LIME STONE GRIT.

NONE GENUINE WITHOUT THIS TRADE MARK.

Takes the place of Oyster Shell and Flint Grits. (Reg.)

2s. 6d. per cwt., 68s. per ton.

F.O.B. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

### E. A. PITTAM,

"Melbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's B."

### BLACK, also WHITE LEGHORNS, 6-to-the-lb. Egg Strain.

To clean House  
for Pullets

5/- EACH.



Will be accepted for 500 Genuine 1921 Hens that laid 2,522 eggs last week (October to December Records over 40).  
Six and Cockeret, 35/-, carriage paid.  
April 1922 Pullets, from 10/6.

Dept. C, GRAY POULTRY FARM, Ltd.,  
Sidcup, Kent.

### Bred-to-Lay Strains

OF

W. WYANDOTTES,

(BARRON.)

W. LEGHORNS,

(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

### Major HADEN, S.P.B.A.

NETHERBY HALL, SEDGLEY,  
STAFFS.

### GRANULATED MOSS LITTER

For POULTRY HOUSES.

2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2, 5s. 6d.  
3, 8s. 6d.; 5, 13s. 2 cwt. Balce,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Feed without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	8.08	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per owt.; 23 10s. 0d. per  $\frac{1}{2}$  ton; 23 4s. 6d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per owt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

JUST THE BOOK FOR YOU.

### "THE SCIENCE OF POULTRY FEEDING,"

By Ernest Evans.

Tells you how to arrange rations for all purposes, and the use of Vitamines.

Price: 2/3, post free, from  
THE AUTHOR,  
21, RYDAL STREET, BURNLEY.

## LONGLAYER DUCKS

Lead all Breeds at National Test, Bentley, where my No. 66 broke records with

**201 EGGS in 201 DAYS.**

Drakes related to above,  
from 20/- List Free.

## Capt. R. A. LONG

Stonden Manor, SHEFFORD, BEDS.



THE GREEN-GLASS MEAL PEOPLE.

Will Customers NOTE:—

Our June Prices hold good for July; over 50 different foods.

Motor deliveries in Mid and West Sussex.

**THE STEYNE FOODS Co.,**  
Steyning, Sussex.

#### BUY DIRECT FROM THE MILLER.

Laying Meal (111 Food Units), contains no condiments or spices. A simple and wholesome meal specially prepared for egg production.

21s. per owt., or 11s. 6d. per 56 lbs. Carriage paid England and Wales. Cash with order. Bags free.

J. P. POWELL, Much Cowarne Mills, Nr. BROMYARD.

## W. J. HEPPELL—Appliance Poultry Farm—TANTOBIE,

Co. Durham. One of the few Poultry Farms in this Country

with its own Sheet Metal Workshop. Better Working Conditions. Better Work and Lower Prices.

Our Wasteless Hopper is in extensive use—from Devon to Aberdeen. It is efficient. It cannot choke. If you do not approve of this design, we make others, but recommend the Wasteless Hopper as the best, and the cheapest too! Order one now and try it. Return it if unsatisfactory.

Discount of 5 per cent. through the S.P.B.A.



Length.	14in.	21in.	28in.	35in.
Each	...	7/9	10/9	15/6
3	...	22/6	28/6	35/6
6	...	41/6	52/6	67/6

Poultry Farms Planned and equipped.

Illustrated Lists Post Free.

WATER FOUNTAINS, GRIT HOPPERS, and Sundries, Poultry Houses, Large or Small. Dry Laying Mash, 16/6 owt. Feeding Stuffs.

#### A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has done me a to make them so than

## Tom Barron's

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a cheap proposition for those who have room to bring them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets

Profusely Illustrated Catalogue and List sent on request. Postage 2d.

#### OF PROGRESS.

## "Poultry Foods and Feeding,"

ALSO

## "Chicken Rearing,"

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

## "An Egg in Every Ounce."

# CLOVER MEAL

#### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per owt.  
Half-Lot 10/-

Special prices for 5 owt. lots.

Carriage Paid in England.

## ROSSLYN & Co.,

39, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, July 26th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 6d. per annum; 5s. 4d. for six months; 3s. 3d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Leeches, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Leeches, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 93, Barncombe Street, S.E.16. Tele.: 894 HOP. **Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE REARING PROBLEM.

We suggested in our issue of July 5th, that "The Rearing Problem" was in the main largely a "brooder" problem, and invited our readers to send us their views and suggestions on a topic which was of such vast importance to us all. There has been a capital response to this invitation, and we publish several letters which we are confident will be read with interest, and which will prove of great value in solving the puzzle.

We suggested that the problem could be boiled down to two points, (1) Prevention of exhaustion of oxygen by lamp or stove, (2) a means of obviating the massing of chicks. The correspondence which we publish below would seem to confirm this opinion.

As to Mr. Taylor's letter, although we all appreciate the value of his remarks on incubation, it will perhaps be better to confine ourselves for the present to the brooders, and assume we are dealing with chicks which were healthy and vigorous when hatched.

Dear Sir,—With reference to your editorial, "The Rearing Problem," in "Eggs," July 5th.

For the past three years I have been experimenting with ventilation in hovers, and I think I have (to my satisfaction) solved the problem of rearing up to six weeks, to a certain extent.

I always had a theory the cause of mortality was due largely to a blanket of foul atmosphere over chicks and the air did not change quickly enough. I do not think the lamp fumes are the real cause in decent hovers and Foster Mothers. I never had difficulty rearing in December, January and February. My trouble commenced with the warm weather, and was

greatest during May and June. In my opinion the lamp's flame being higher in cold weather moved the air more quickly, but with low flame the air became stagnant.

In March I obtained two Sanitary Hovers from Mr. Hananford, and worked one in the ordinary way, and with the other I carried out ventilating experiments. I worked out a system of pure air pouring over the floors of specially-built hover houses, and the results have been more satisfactory than I anticipated. I lost in the control hover 37 chicks out of 117.

In the other I removed 136 chicks at six weeks' old out of 137. A loss of 1. These chicks were all treated in the same way, from same stock hatched in Phipps' Hot-Air Incubators, and fed on your formulas.

If you think it interesting I will offer you particulars, but at the moment I am too busy to go into details.

Yours truly,

T. H. ROWE.

### THE REARING PROBLEM.

Dear Sir,—In "Eggs," July 5th, you ask readers for suggestions on the subject of management of chicks in Brooder Houses. I am writing in the hope I may at least be able to be of some help by suggestions, if no more. I have tried several types of Brooder Houses, and so far prefer the 10ft. x 10ft., span roof with glass panels all round, except the door, half-way up the walls. Ventilators on each side, boarded outside to prevent driving snow or rain entering. I have tried paraffin stoves, and several lamp ones. I am having made, to try, platforms, 4ft. 6in., for 3ft. 6in. hovers, or 1ft. larger than the hover, to have 6in. all round for the chicks to get away from the heat, square, with the corners cut off. The platform will be 2in. off the ground, and the sides 5ft. high off the ground, making 3in. above the platform, with four slides for chicks to enter or leave. In the walls below the platform will be a number of ventilators for air to circulate under the platform, and enter at several places about one foot from the centre, to give fresh air for the middle chicks to breathe, or supply the fire with air. I am hoping this protected platform will, by keeping off the floor draughts, stop the chicks crowding. For two days they will be fed on the platform, then allowed anywhere they choose, to come out of doors as soon as possible.

I think it is a good thing to be able to gradually raise the hovers as the chicks get older, so that more and more fresh air gets under, as everyone will have noticed chicks with a hen in a few days generally have their heads out from her, and soon get to cuddling close to her, and not under her, unless it is very cold weather.

My hovers with legs, I put bricks under the legs to raise them.



This year (1922) particularly, has been a very difficult one for the early chicks, as the later frosts coming on top of a lot of snow killed nearly all green vegetables. I think we are apt to think too much only of the protein, or albuminoids, side of the chicks' food, as well we ought to think more about the mineral salts, also the Vitamines, both the autineuritic factor water soluble "B." and the autiscumbutic factor water soluble "C."

This year we have all had great difficulty in providing water soluble "C." because there has been so little natural green foods; even swedes have been poor, and not kept well. At first I used chickweed, minced turnip and Alfalfa, or clover meal, later nettles, but these I cooked and mixed biscuit and flaked maize with. Sprouted oats are too much trouble for a large number of fowls. I am a great believer in cabbage, Brussels Sprouts, both raw and cooked, for fowls of all ages. I am certain if more trouble was taken over these green foods, we should hear far less about leg weakness, toe picking, etc., and also bad feathering of young half-grown chickens.

I will let you know the result of the platforms later on if you wish.

EDWARD C. BOUCHER.

Cheddleton, Leek.

Dear Mr. Newman,—Your leader of the 5th inst. should give everyone food for thought. At the end of a hatching and rearing season one ought always to try and analyse the cause or causes of failures or success. This is no easy matter, as the many factors concerned make it very difficult to arrive at any definite conclusion. At the moment, when one seems to have definitely settled in one's mind how those heavy losses, or otherwise, come about, an entirely new factor crops up, upsetting one's whole train of thought. But to my mind one of the chief causes of mortality is the foul air under the hover, caused by insufficient ventilation, and so forcing the chicks to inhale time and again, to all intents and purposes, the same air. The ammonia given off by the droppings must also have a detrimental effect. With these points in mind I designed the frame of  $\frac{1}{2}$  in. mesh netting as described in my letter to you in "Eggs" of the 31st of May. An improvement on this frame would be to have holes bored in the floor under the frame to allow the pure outside air to circulate immediately under the chicks on the frame.

It would be an easy matter to adjust the floor so as to avoid a draught. We shall certainly try this next year. It may be of interest to state that throughout the season our losses with chicks reared on these frames have been less than with those reared without.

As regards crowding under the hover I consider it simply a matter of temperature. Using a thermometer is very often the cause of loss through under or over-heating. If the chicks are uncomfortable it doesn't matter a brass farthing what the temperature is. It is simply a case of observation.

I trust other readers will give us the benefit of their experiences on a subject of such vital importance.

Yours sincerely,

W. BROWNE.

## " AND THE PATH WAS STREWN WITH THORNS."

A FEW COMMENTS ON THE REARING PROBLEM.

M. S. TAYLOR.

On reading the Editorial in the issue of "Eggs," dated July the 5th, I determined to take advantage of our Editor's offer, and offer these few suggestions for your perusal.

Before going farther. I may say the following are only suggestions, not explanations nor positive statements, but "might be's."

The thing which struck me first on reading Mr. Newman's article was the absence of any reference to incubation. Of course, incubating and rearing may be two different things, but I think at the same time they have more than a slight relationship.

Take some chicks hatched in an incubator, and rear them under a hen; do they "do" better than their brothers and sisters reared in a brooder? Yes, I think they do, although not a great deal. Next take some eggs from the same pen as the above-mentioned chicks, same from hatch and run, then by hen alone, and they are absolutely "it" given ordinary luck. Finally, hatch some eggs under a hen, and rear the resulting chicks in a brooder, and you will find they "do" better than incubator chicks, perhaps a shade better than artificially hatched chicks reared under a hen, and not as well as chicks hatched and reared under conditions free from all artifice.

From the above we may draw a few conclusions: (1) The natural method always was, and always will be, the safest. (2) That artificial incubation has in some way or ways a detrimental effect on the chicks produced by it. (3) And that the damage done is not wholly reparable by giving the artificially-hatched youngster into the care of a hen. (4) That the first step towards solving the rearing problem might be the production of a better incubator. (I can hear some appliance makers saying, "Of course—quite simple, we've known how to do it for years, the incubator of to-day is just our little joke").

Yes, I know it is ever so simple to talk about perfect incubators, but rather more difficult to produce them, but at the same time it is a crying need now, and we all know that there are some great brains working for our industry.

In the humble opinion of the writer, the big fault in our present-day incubator is the ventilation, in some cases the lack of it, in others an excess of it, and in every case, insufficient, that word is hardly strong enough I rather think I should say, totally inadequate control over it. I have devoted a great deal of time and study upon incubation and its intricate workings, and have come to the following conclusion:—During incubation the living, breathing embryo is, under artificial incubation, kept alive by the minimum, instead of the maximum amount of oxygen. In other words, it is being nourished sufficiently to hatch it out, but not sufficiently to hatch it out as a STRONG VIGOROUS chick. Therefore, when we subject it to further artif-

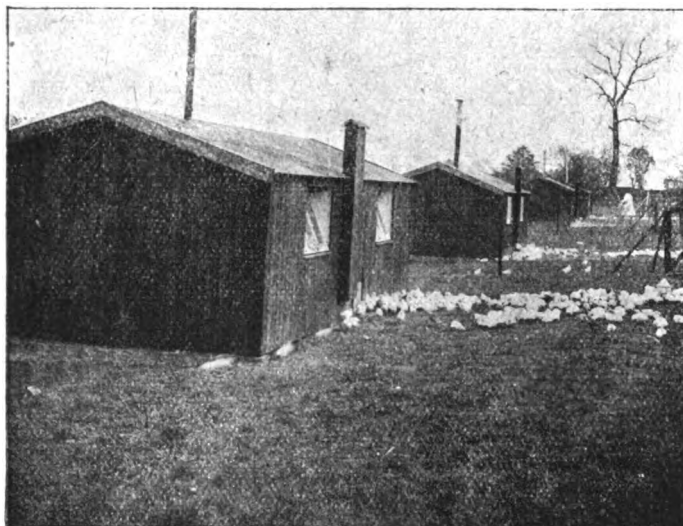
cial treatment in the form of the brooder atmosphere, pregnant with carbondioxide from the exhalations of the chicks, we have trouble, serious trouble, which knocks at the foundation of our industry itself.

Therefore, may I suggest that one of the first moves towards solving the rearing problem is by turning out a more perfect incubator, and till this is done, and it may be a long time, by keeping our ideas of fecundity *within practical limits, as I firmly believe the source of all our difficulties in rearing is the breeding pen.*

### THE ANTHRACITE STOVE.

(To the Editor "Eggs.")

Dear Sir,—In your Editorial last Wednesday re *The Rearing Problem*, you reduce it to two heads:—No. 1. A means of preventing the exhaustion of the oxygen supply by lamp or stove. No. 2. A means of obviating the "Massing of chicks," and you ask, "Is it an insoluble problem?"



BROODER HOUSES WITH ANTHRACITE STOVE AND VENTILATOR SHAFTS.—Lieut.-Sol. T. F. WATERHOUSE, D.S.O.

In response to your invitation for suggestions from readers, I would like to say that I have solved No. 1 to my own satisfaction this season. In the case of anthracite stoves, by adding Airshafts on the outside of the Brooder house; one for an intake, opening one foot six inches above the floor with a slide to regulate it, the other an outlet one foot above the floor, also with a regulating slide. These were what we always used in British Columbia for years, and gave excellent results. The air came in well above the stove, circulated round the stove continually, and passed out on the opposite side of the room, a foot above the floor, without making any draught. It was sucked up by a long shaft, reaching above the roof outside. The thorough circulation of the air round the stove and out can easily be shown by making a little smoke in the room. I have passed nearly 8,000 chicks through our brooder-houses this season, with exceptionally small losses, and have

never seen stronger, healthier, or better-grown chicks anywhere, not even under hens; in fact, I have sold hundreds of these chicks to people who had bad losses with hens in the early part of the season, and who were delighted to find that they were just as good, if not better, than their own. In bad weather it was quite unnecessary to open the windows, the shafts gave ample fresh air. No sign of Baccillary White Diarrhoea or Coccidiosis, and with Dry Mash, ordinary grain feeding, and sour milk to drink they romped ahead without a check.

I may mention that with these shafts in B.C. some years ago, I raised a splendid bunch of chicks, 1,500 in number, round one stove, burning Distillate, and, not counting an epidemic of toe pecking, which carried off 250 of them, the losses were only 3 per cent. in six weeks. I have seen chicks raised by hens in considerable numbers, and have yet to be convinced that they can beat those raised properly, in a good anthracite stove Brooder house. I started in 1905 with four lamp-brooders of a very good make,

with fairly good results; later, added a brooder house with eight lamp-brooders, then changed to four lamp-brooders and four fireless brooders, starting the chicks in the lamp-brooders for the first few days to break them in, and then removing them to the fireless brooders. This saved a great deal of labour usually connected with breaking in chicks to use a fireless-brooder. Once this was done the losses were less, and the chicks stronger than those in lamp-brooders. But, still, the labour was too great for handling chicks in large numbers, and so, for two seasons, I tried brooders heated with Acetylene gas; this proved a labour saver, but too expensive. Soon, however, Petaluma Distillate-burning stove was invented, much after the pattern of the present anthracite stoves, it handled large numbers of chicks with little labour and good results, but was liable to blow out in a high wind or clog up in the needle valve, and, finally, Distillate got too expensive.

and Palace last year, as a specimen of the breeder's art we were all agreed they were "it"; nothing could have been better, they were exceptional. No one could have expressed greater admiration for them than Mr. Barron, but I cordially agreed with him when he said that they would not lay a hundred eggs each in the year. Friend Brownson, who is a true fancier, if there ever was one, couldn't see eye to eye with us, but there is no finer judge of a layer than the Lancashire crack, and he was right—absolutely right. A utility fowl must have its economic qualities preserved. The first of these qualities is a *reasonably early maturity*, and birds could not attain that size and mature *reasonably early*. We are both extremists; our birds mature too early, and the fancy too late. The result is that we, too, are producing an uneconomic bird. I think we both realise this fact, but neither of us care to accept it. The standards ought to have a maximum and minimum weight. I believe, for example, that the show type of Black Orpington could be bred to be as good a layer as the Australorps, but if utility breeders took them up, we should be beaten every time on the show bench, because we couldn't maintain the size which present-day judges demand. We should be up against it too in feather, our best layers are always tight in feather, because they draw so heavily on their body fat, they can't nourish feather as your fancy breeds can. There are certain little points in heredity which we can't get over. I have long been convinced of the dual possibilities which Mr. Harold Marshall advocates. I am against the utility shows, as I have said before. We don't want to judge a bird by the thickness of its pelvic bones, nor its capacity. I have seen standard exhibition specimens awarded first and special at utility shows, and they won well. I handled a winning Red Sussex in the Fancy at the Palace last year, which would have swept the board in the utility classes, under the handling test. Mr. Hurman's birds have the dual possibilities. Yes, "Quill," you may label me a "potential," but what about these extremists?

#### CORRECTION.

Owing to an error for which we were not responsible, the prices for the 24-egg egg box in the "Insurance Packing Co.'s advertisement last week was given as 3s. 4d. per box and 38s. for 12 boxes. The correct price is 3s. 6d. and 40s. respectively.

#### MUSHROOMS

*grow in the dark, but you must bring your business out into the light if you wish it to grow.*

*An advertisement in the forthcoming Year Book of the Scientific Poultry Breeders' Association will bring you into the circle of "live" business men, and it will be read by prospective customers who are enthusiasts, out for the best they can buy and with the money to indulge in their fancies.*

*Don't wait until all the available space is sold, but send in your reservation of space now.*

*Further particulars, rates, etc., may be obtained from the Advertisement Manager, 94, Farncombe Street, London, S.E.16.*

## SOME THEORETICAL OBSERVATIONS ON LINE BREEDING.

By G. W. THOMPSON.

"I began by studying Mendel's law,"  
"but becoming rarely 'fogged' after"  
"the first chapter or two, cast it on"  
"one side"

The writer quoted above fell back on line breeding. Professor Bennett has said that this new science is so simple that so soon as the student masters the handful of words, which are in use—the "jargon words" he calls them—Mendel's law is easy to understand, and use experimentally. It cannot have been anything but these "jargon words" which fogged the writer of Line Breeding, for Line Breeding, as it is called, is a jumble a positive welter, of error. Line Breeding was practised in Mendel's day, but it did not satisfy Mendel. Mendel, the man who wanted to know things; Mendel, the man who was always asking himself, Why, as all enquirers after knowledge do. First, let us consider Line Breeding, and then let us return to Mendel, and his discovery, and see if without the jargon words, we can make the matter plain.

"Line Breeding tends rather to the"  
"fixation of characters than to"  
"improvement"

This is the cardinal error into which all the line breeders have fallen. Line Breeders have never realised any goal, they have not even reached a half-way house or compromise between a scientific plan and no plan at all. They first knew that they were able to secure by line breeding a good number of the animals or birds they sought. If their powers of observation had not been so defective they would have noticed that for every wanted specimen they produced on an average one of the unwanted kind. In short, a very wasteful method of breeding, something as unprofitable as the cockerel difficulty with the poultryman. We must put up with the (Sussex) Ark and the animals (chicks) which go in "two by two," but we cannot afford line breeding, which "fixes characters without improving them."

The writer of Line Breeding will note that I have made an important alteration in the quotation.

I do not know whether Line Breeder is a family man, but next time he hears a baby described as "just like its mother," or "the very image of its dad," I hope he will punch himself and reflect that humans are not line bred. Why is the likeness passed on? I have seen five generations of my own family (photographs). My great-grand mother is remarkably like my father, and through me the likeness passes to my son. An ancestor of some friends of mine was painted by Sir Joshua Reynolds. This painting might very well pass for one of the present generation—also about five times removed from the original. In both these families there are members quite unlike; (a) my Great Grandmother, (b) the painting by Reynolds.

In short absence of Line Breeding (a complete absence of any system at all) produces exactly similar results to Line Breeding. Line Breeding, therefore,

# A GOLDEN OPPORTUNITY!

250—1920—Laghorn Hens from our Breeding Pens.

No bird with less than 200 Eggs record in her pullet year.

*Every Bird in splendid condition and with a clean Bill of Health.*

**Price 12/6 each.**

**Carriage Paid.**

Telegrams:- . . . . .  
Utility. . . . .  
Wilmslow



Telephone:- . . . . .  
162 Wilmslow

*Full Particulars sent with each Bird.*

## Lindhurst Poultry Farm

Moor Lane,  
WILMSLOW.  
CHESHIRE.

*Inspection  
Invited.*

M.S.P.B.A.

N.U.P.S.

### REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS.

### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags	2 3
12lb. Bags	3 9
28lb. Bags	7 6
56lb. Bags	12 9

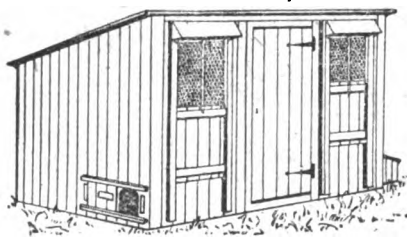
### Prices per Cwt.

	s. d.
1 cwt.	25 0
3 cwt.	24 0
6 cwt.	23 6

Carriage Paid nearest Station in  
England and Wales.  
Bags included. Cash with order or  
Deposit with "Eggs."

**W. N. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.

## GREAT BARGAIN!



**Only £5 Free on Rail.**

This house is 9ft. 0in. x 5ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected fin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-;  
if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**

'Phone: 521 SHIPLEY.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt
Dried Buttermilk (for chicks)	20 0
Sussex Ground Oats	17 0
Maize Meal	11 0
Maize Gluten Feed	12 0
Pea Meal	16 0
Bean Meal	16 0
Meat Meal (Fine Ground)	24 0
Fish Meal (Best White)	24 0
Biscuit Meal (Fine)	25 0
Oatmeal	12 0
Broad Bran	12 0
Middlings (Best Fine White)	12 0
Middlings (English)	12 0
Feed Wheat (Best English)	15 0
Feed Oats (Best English)	15 0
Kibbled Maize (Sifted)	12 0
Flint Grit	6 0
Limestone Grit	6 0
Oyster Shell	11 0
Cookie Shell	9 0
Dried Yeast	20 0
Boiled Wheat (for Chicks)	12 0
Pinhead Oatmeal	20 0
Whole Oat Groats	20 0
Broken Rice	16 0
*No. 1 Chick Feed	22 0
Meal for Laying Hens	18 0

(Both the latter are Mr. Tom Newman's Recipes).

FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX



EGGS.

July 26th, 1922

# ROUP, GAPES, CRAMP, COLDS, SCALY LEG AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives Instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

*Supplied on Application FREE OF CHARGE by the Manufacturers of*

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

*At all Chemists.*

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

*At all Chemists.*

**NEWTON, CHAMBERS & CO., Ltd.,** Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

**COMPARE OUR PRICES ALSO OUR SAMPLES  
WHICH ARE FORWARDED FREE ON APPLICATION.**

	Cwt.				cwt.
	s. d.				s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa)	18 0	"Moregg" Dry Mash	...	...	17 0
"Moregg" Laying Meal (no Alfalfa)	17 0	Poultry Mixture	...	...	17 6
Pure Sussex Ground Oats	20 0	Poultry Oats (clipped)	...	...	17 6
Pure Alfalfa Meal	22 0	Kibbled Maize (screened)	...	...	14 6
Pure Clover Meal (not Cob or Chaff Dust)	18 0	"Rearall" 1st Chick Feed	...	...	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt)	21 0	"Thryvon" 2nd Chick Feed	...	...	22 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.)	23 0	"Matua" Chicken Mixture	...	...	20 0
Carriage Paid.		Chick Mash	...	18 0	Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret that owing to the short crop of GREEN ALFALFA we have been compelled to raise the price 2s. 0d. per cwt.

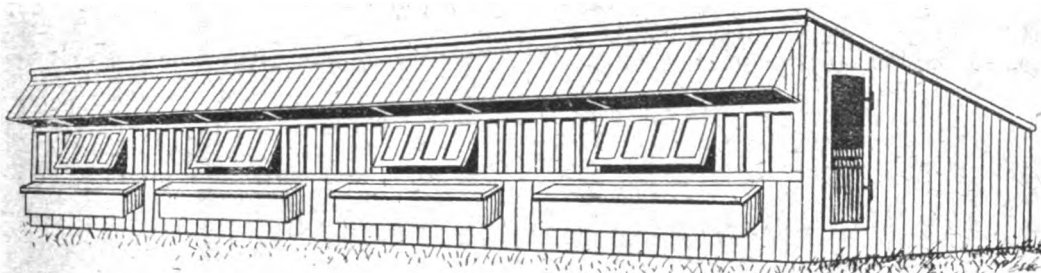
**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

# WHY are my "POPULAR" Houses so POPULAR? BECAUSE

THEY ARE BUILT WITH BEST TIMBER, BY BEST WORKMEN WHO ARE NOT PAID TO SCAMP THEIR WORK. HOUSES HOLD UP FULL MEASUREMENTS, FELTED ROOF WITH BEST 2-PLY BITUMEN, NOT SANDED. BEST DRINKING AND FEEDING UTENSILS SUPPLIED. AND, LASTLY, THEY HAVE BEEN CONSTRUCTED BY A PRACTICAL MAN, KNOWING AS I DO WHAT RUBBISH IS BEING PUT ON THE MARKET, AND THE UNDERSIZED HOUSES TO MAKE THEM LOOK CHEAP IS THE REASON

I ASK YOU TO SEND ME A TRIAL ORDER. YOU WILL NOT REGRET IT.

ALL  
"POPULARS"  
CARRIAGE  
PAID.



5 PER CENT.  
EXTRA  
CHANNEL  
ISLANDS and  
BEYOND  
FIRTH OF  
FORTH.

No. 3. 16ft. long, 10ft. wide, 7ft. high	£ s. d.
5 per cent. off to all buyers	34 10 0
	1 16 0
5 per cent. off to Members, S.P.B.A.	34 13 6
	1 14 8
	£32 18 10
No. 4. 20ft. long, 16ft. wide, 7ft. high	50 15 0
5 per cent. off to all buyers	2 19 9
5 per cent. off to Members, S.P.B.A.	56 15 3
	2 16 9
	£53 18 6
No. 6. 40ft. long, 16ft. wide, 7ft. high	114 0 0
5 per cent. off to all buyers	5 14 0
	108 6 0
5 per cent. off to Members, S.P.B.A.	5 8 4
	£102 17 8

Fitted with floor, all main work, made of 3in. T. G. and V-jointed matching on 2 x 2 framing, four 2 x 3 penetrated sleepers supplied, two 2-gal. water fountains, two dry mash hoppers, roof felted, perches, drop board, glass—in fact, all complete.

Same as No. 3, but this has 2 x 3 framing instead, two 4-gal. water fountains, two larger hoppers, five 2 x 3 penetrated sleepers, and absolutely complete.

As No. 4, but with extra water fountains and dry mash hoppers. Size as illustration.

Please write me concerning larger houses.



STRIPED  
BANDS,  
5 Colours.



PLAIN  
BANDS,  
10 Colours.

## 50,000 ENGLISH-MADE RINGS IN STOCK.

Size.	500	400	300	150	100	50	25	12
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1. Day-Olds	10 0	8 0	6 0	3 0	2 0	1 3	0 9	0 6
2. 2 Months	13 9	11 0	8 3	4 3	3 0	1 9	1 3	0 9
3. Half-Grown	15 0	12 0	9 6	5 0	3 6	2 0	1 4	0 10
4 and 5. Leghorns	25 0	20 0	15 6	8 3	5 9	3 0	1 9	1 0
6. Wyandottes	26 0	21 0	16 6	8 9	6 3	3 3	2 0	1 3
7. Ditto Cocks	27 6	22 0	17 6	9 0	6 6	3 6	2 3	1 6
8. Cochins, etc.	30 0	24 0	19 0	9 9	7 0	3 9	2 5	1 8

Red, Light Blue, Green, Violet, Dark Blue, Yellow, Pink, Brown, Black, White.

SPIRALS,  
10  
Colours.



ALUMINIUM,  
All  
Numbers.



## CUT PRICE IN FENCING STAKES.

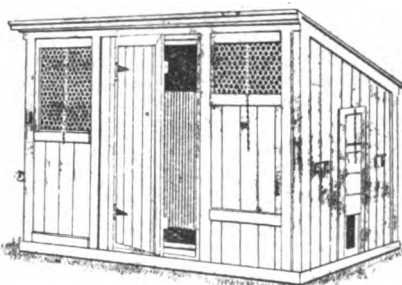
Per 12. Pointed and Penetrated.  
4ft., 5/-; 5ft., 5/8; 5ft., 6/4; 6ft., 7/-; 6ft., 7/8; 7ft., 8/4; 7ft., 9/-; 8ft., 9/8; 8ft., 10/4; 9ft., 11/-.

PRICES NETT. All Carriage Forward Only.

## BEST ENGLISH GALV. WIRE NETTING.

12in. 24in. 36in. 48in. 60in. 72in.  
1in. Mesh ... 9/- 17/2 24/5 32/7 41/7 48/9  
2in. Mesh ... 6/- 10/6 14/3 19/- 23/9 28/6  
3in. Mesh ... 4/5 7/11 10/11 14/6 18/2 21/9  
All 50 yard Rolls and Carriage Paid on £7.  
2 1/2 per cent. Discount Members, S.P.B.A.

VACANCY FOR TWO PUPILS ON  
POULTRY FARM.



The Original BARGAINETTE House.

No. 1.	TOTAL COST.
5ft. long, 3ft. wide, made of best 3 T. and G. matching, and makes a grand Cockerel House. £2 7/-, floor 10/6, felted roof, 5/6, penetrated, 4/-.	£ s. d. 3 7 0 Less 5 per cent. ... 0 3 4 S.P.B.A. ... 3 3 8 0 3 2 £3 0 6

No. 2.	TOTAL COST.
6ft. long, 4ft. wide, 4ft. high, 3 matching, on stout framing, only £3 2/-, floor 15/-, felt roof 6/6, penetrated 5/6, 3 outside nest, 13/6.	£ s. d. 5 2 6 Less 5 per cent. ... 0 5 2 4 17 4 S.P.B.A. ... 0 4 10 Carriage Paid. ... £4 12 6

**C. A. SYDENHAM HANNAFORD, Hamworthy Junction, M.S.P.B.A., DORSET.**



REAR YOUR CHICKS ON  
**Chamberlain's "Rapid Growth" Chick Food**

AND ENSURE STRONG HEALTHY CHICKS.

A CUSTOMER'S TESTIMONY.

An esteemed Redditch Customer writes:—"It may interest you to know I have for many years kept Fowls and reared a few Chickens for my own use, and have tried practically every known Chicken Mixture, but have no hesitation in saying that I have always had better results from your 'Rapid Growth' than any other."

WRITE FOR FREE SAMPLE TO—

**CHAMBERLAIN, POLE & Co., Limited,**  
**BRISTOL.**

**DO NOT START  
POULTRY FARMING**

Without considering all the factors involved

**DO YOU UNDERSTAND**

ORGANISATION.  
ADVERTISING.  
SALESMANSHIP.  
HOUSING.

BREEDING.  
FEEDING.  
REARING.  
ETC.

**CAN YOU**

Distinguish a good sample of Foodstuffs from a poor one, or, when you buy your stock on approval, can you reject unsuitable birds?

**DO YOU KNOW**

Where to Buy the Best Strains?  
Where to Sell your Produce to the Best Advantage?

**Ask ANY POULTRY FARMER**

How much of your capital you can waste through lack of knowledge of the above and other factors.

THEN CONSULT A MAN OF PRACTICAL EXPERIENCE.

I will visit your farm, and  
**TELL YOU, TEACH YOU, & HELP YOU**

Reasonable Charges. Write for Terms.

**CLIFFORD de KUSEL, S.P.B.A., N.U.P.S.**  
1, STEMBRIDGE RD., ANERLEY, S.E.20.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-; ½-cwt. parcels, 13/-; ¼-cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

**The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.**  
(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**G. R. PINDER, M.S.P.B.A., N.U.P.S.,**

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have L2 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

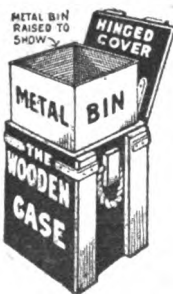
1920 Birds: 7/6 each.  
1921 Birds: 12/6 each.  
On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. Dottes, R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.  
Lindsey Poultry Farm, Carlton, Louth, Lincs.



**BUY THESE TO-DAY. Govt. Surplus.**  
**— A Big Bargain in BINS —**

**4/3** each } 6 to 12 4/-. 24 to 50 3/9.  
complete } Immediate Despatch.

Don't miss this Amazing bargain.

As shown, sound, unused, 20 1/2 x 17 x 17; strong wood cases, painted, hinged cover. Inside removable metal bin, hold nearly cwt. corn. Rat proof. Hold water. Boon to smallholders.

**THE LEWIS SERVICE (7), 23 Waverley Rd., Redland,**  
**BRISTOL.**

possesses no merits peculiar to itself, but it has this effect—which is a defect—that it fixes character without improving it.

It will be an aid to clearer thinking, if we say in place of "fixes character," that Line Breeding circumscribes the characters, places a limit to the number of them, and (this also certainly) offers no place for the sorting of them out. If I had also seen a photograph of another of my Ancestors, my Great Grandfather, for example, and also another Reynolds painting, it is certain I could have traced other, and different, characters and resemblances. Now, Mendel discovered how unwanted characters could be eliminated and desired characters would remain. It is, therefore, the only known method of increasing the numbers of the desired individuals. Thus the economic importance of his discovery cannot be overstated.

The first chapter or two of any work on Mendel contain the essence of the matter, and without the jargon, I will essay the attempt to state it clearly. If we take from our corn bin a few grains of oats, wheat and maize and arrange them in three piles, we shall find it possible to re-arrange the three piles, but there is a limit to the re-arrangements we can make. The transmitted characters (provided the progeny is numerous enough) in a family of fowls, will combine in all the ways open to them. Mendel's statement has been presented very simply by Prof. J. Wilson ("Mendelism," A. and L. Black, 1916) in four propositions:—

1. *Pure Species* produce constant or line breeding forms.
2. *Hybrids* also produce true breeding form.
3. *Hybrids* produce true breeding form in all the combinations in which the characters carried by their parents can be combined.

The fourth proposition—an inference from the others—I have omitted.

Several writers have stated exactly how tests are applied to ascertain which is the true breeder. Can Line Breeder, or anyone else, point to the "fog" in the three propositions above? Or the "fog" in the very explicit directions given by Hurst for tests for true breeders in Wyandottes and Leghorns?

Many years ago—I was still in my teens—I attempted to produce a blue-marked Dutch mouse. I possessed the Dutch mouse in three colours—black, fawn, and chocolate. At that time there were no blue and white mice available, so I procured a self-coloured blue doe mouse, which was mated to a black and white mouse, which had the correct Dutch marking. This self-blue doe produced a litter of eleven young, and everyone was self-black. Had I known anything of Mendel then (I doubt if he was known even among the learned until about a year later) I should have of course known how to proceed. But once the method of experimental work has been stated, anyone, having the available means, can pursue them; indeed, an intelligent schoolboy now-a-days, could manufacture a blue and white Dutch-marked mouse. He would know that the appearance of nothing but self-black from the first mating was due to the dominance of the colour black, and the fact that they were selfs was due to the dominance of self to marked specimens. The next step—which I did not take—should have been black to black.

Line Breeder attributes his improved egg yield to line breeding; it is sufficiently explained by his use of

four good cockerels. Line Breeding, if pursued long enough, will "let him down" in this way. Some of his home-bred cockerels will carry the factors which gave the low average yield of 156. Some of his hens also will carry it. Likely enough when these meet this yield will drop for a season. It will be a see-saw business, and the only insurance he can effect against such a possibility is by testing for true breeding specimens of the desired kind. An average of 176 is not good enough in a small flock. I have had 185 average from Leghorns, which could average only 86 for the S.P.B.A. winter test. I have Wyandottes which averaged 51 exactly for the 90 days ending 15th January, and they are unlikely to touch an average of 185, notwithstanding. This is due to excessive broodiness among a minority of them. It will be interesting to see what I can do to improve these birds. There were 14 of them. One only moulted in the first winter. Four have spoilt the chances of a good average by broodiness, two of them have not gone broody.

These birds represent exactly and typically the present stage of scientific breeding in England. There is much room for improvement, but much improvement over the average run of fowls is there already.

The breeder of them trap-nests thoroughly and registers pens in the Register each year. The improvements effected I tabulate thus:—

1. Slow maturity was entirely absent.
2. Winter moult absent, save for one possibly due to my attempt to break her of broodiness in December.
3. High level of winter laying (they passed any period of 90 days between 1st October and 31st January, with an average yield well above the required S.P.B.A. standard).
4. Hatching, rearing and freedom from disease—excellent in these respects.

The required improvements remaining to be effected are two only:—

1. Elimination of the excessive broodiness, and
2. Size of egg.

In the case of (1) Clearly since I have two none-broody, one broody once only, and four broody four times each to date, this family carries all the factors in the case, and steps must be taken to eliminate some of the factors.

In the case of egg size, I hope to find that the rapid growth of these birds in our dry summer of last year (in confinement) induced an unusually early sex maturity. I expect some improvement in egg size without breeding for it, but by better attention to environment during the period of growth.

I have mentioned these birds only because I regard them as good examples of their breed as produced by a careful pedigree worker—if they can last through this month (July) they will touch an average of 185. I have little doubt if they don't it will be those four broodies again!

Now how would line breeding avail me? I cannot see that it would assist me in the least. Suppose I commence line work with the best six of them—killing the four broodies—sooner or later on line breeding methods I should strike a patch of them again. What I must do is to test for birds which do not produce them.



## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

John's Pal (Cosham). "I shall be greatly obliged if you can tell me if you would advise a young ex-army officer 'axed' recently with £500 capital, to start poultry farming in a small way. He has had some experience, and would gain more before starting. Is cautious and a hard worker. Would it be expecting too much, given time to get going, to expect a profit of ten shillings per bird per year? He hears, of course, that owing to low prices paid for eggs, and high ones for food, that it is hard to make anything, and hesitates before sinking his money."

You have asked me a question which I have always found it most difficult to answer. £500 is a very small capital, and although it is a great asset to be both cautious and a hard worker, I may tell you that 90 per cent. of those who write to me for such advice as you now want, possess the latter virtue. You must appreciate there are other factors besides these two, even in addition to capital required, there is the knowledge which comes only with long experience; there is aptitude for the work, and there is business ability. A good business man will often make more money than a good poultryman with twice his experience. It is a very great pity that so small a proportion of poultry-keepers are good business men. Now to come to the point. If your friend has nothing but the £500, I would not advise him to sink it in the poultry farm. If he has a sufficient income to maintain himself for the first two years, then I think he could invest his £500 with a fair chance of success. As to the profit of 10s., I think he could count on this, but I do not wish to be misunderstood. It is not a case of the multiplication table business, that is to say, that if he makes £250 on £500 birds, I am not saying he will make £500 on a 1,000. I would advise him to start in a small way, and build as he goes.

Farmer (Helmshore). I have never heard of buttercups poisoning fowls, and in spite of what you say as to the birds being all right in the other runs where there are none, I think you must look to some other cause than this. I have had birds running over fields where buttercups abounded, and, of course, hundreds of other poultry-keepers must be doing the same, but I have never traced a loss to this source.

Worried (Fleet). As your pen of Light Sussex hens have thrown such good stock, I should use them again with the same male. They may be a little late next breeding season, but I should have the males' spurs pared down. (2) As the February pullets are so well developed, and were hatched on the first of the month, you could breed from those, too. (3) Yes, you could use the same drake next year with the B.O. ducks.

C. T. L. (Twyford). If the chicks are quite cured I do not think there will be any risk if you return them to the flock; they appear only to have only had bad colds.

H. W. (Sussex). Yes, it is advisable to pare a male's spurs; the best way to do so is to apply a hot potato. This will soften the horn, and with care you can then pare it without bleeding. You say you have followed my advice on feeding, and have found it most successful, especially in rearing and growth of chicks on dry mash, but you have some White Leghorns, which were severely frightened by a dog on several occasions, and have been dreadfully nervous ever since. They have a continuous head and neck moult. When a bird is in a very highly nervous condition, such as we should expect them to be after being frightened by a dog, they do not digest their food well, and this would be one of the factors likely to cause a partial moult. With regard to the personal part of your letter, I am sorry I cannot manage this. The samples you send are all very good.

H. C. B. (Wellington). "Reference to article on Line-breeding in issue of July 5th. This interested me exceedingly, but what does the writer do when he wants new blood, and how does he know when he wants it?"

I think the writer explained his subject very clearly. H. C. B. If he wants new blood, he can introduce a male from another strain, and mate to the special cockerel breeding hens which he has in each pen, or he might buy two or three good hens and mate to one of his own cockerels. But you will note that the writer says that, although he can inter-mate his pens, the degree of relationship does not become closer each year, and you must particularly note that he says: "The most satisfactory feature is the health and vigour of the stock. This may be ascribed to the rigorous selection of the breeders, rather than to the system itself." He will begin to think about introducing new blood when he sees signs of infertility, small eggs, or bad hatchability.

E. M. (Forest Gate). The mash appears to consist of Bran, Middlings, Sussex Ground Oats, and Meat Meal. The objection to its use as a wet mash is the very high percentage of Bran. I am a great believer in Bran, but it can be overdone, and there is a great excess here. I do not know the formula and have never heard of the gentleman to whom you refer.

Avalon (Glastonbury). The samples you send are very poor quality and dear, the maize germ meal appears to have been about some time, the middlings are very coarse, and at 14s. cwt very dear; the ground oats are not Sussex ground, are very inferior quality, and are not worth more than 10s. a cwt. I am sorry we had to refuse your previous letter, but we get so many unstamped and understamped letters that we have been compelled to give general instructions not to take them in. Readers should know that you cannot send samples and a letter at 1½d. rate.

Mrs. G. P. (Forres). I would not use the trench system instead of dropping boards in an intensive house. I do not think the labour saved would compensate for the loss of floor space and the general health of the birds. (2) I prefer the perches from back to front, they should be 12 inches apart, and with a heavy breed they should be allowed 10 in. of perch room per bird, they want that in hot weather. Your house will easily accommodate 100 birds. (3) I quite appreciate that White Leghorns will do well farther North, but I was dealing with a special case, and in this particular instance believe Blacks will be better.

F. W. D. (Marton). Sample No. 1 is a very good one indeed of Sussex Ground Oats, Sample 2 is not Sussex Ground, and should not be sold as such; at 16s. delivered it is fair value, much better than the one offered Avalon above at 17s.

H. C. (Coleraine). I am glad you have been introduced to "Eggs," and that it "appears allright" on closer acquaintance. I am confident that you will find it is **allright**. Now to your questions: What breeds do I advise you to keep for utility and exhibition, one heavy and one light. Well, I think, as you are a backyarder, I should recommend the Black Leghorn and Croad Langshan. (2) You should have 150-egg incubators. There is not much in it as between hot air and tank machines, study your environment if it is low and inclined to be damp, run the hot air, if otherwise the tank. I prefer a hover in a 6 x 4 house to take 80 chicks as a start to any other system of brooding. But if you are only in a small way you could run a fireless. You ask "how many square feet each should a laying fowl have in an open backyard run?" That is not a very practical question, because if the run itself was to be of any value to the birds you would not get it large enough in a backyard; on the other hand, there is the danger of its becoming foul and you get an outbreak of disease. The open run is of no value to the backyarder, in 90 per cent. of cases he would be wise to keep his birds intensively.

### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager, "Eggs," 94, Farncombe Street, London, S.E.16.

Inquirer (Malvern, Wells). The cause of the small blood vessels breaking is generally due to the food being too stimulating to an individual hen during the flush laying season. What I want you to understand is, that although the mash may not be too stimulating for the flock for one or two highly-fecund individuals it may be so. We generally get a great many enquiries about this trouble from February until the end of May, as a rule only two or three individuals in a flock are affected. A drachm of tincture of iron to each quart of drinking water is the best treatment. You were giving rather too much ground oats in your mash, 1 part would have been sufficient. I can quite understand that your hens are on the fat side, and I think your pullets will be, too, if you don't let them down a bit you will have trouble after the moult. The sample of fish grains is a very good one.

H. W. (Battle). Yes, the firm referred to in the June 21st issue at Camberwell is the one you mention. I have had other complaints, but we are not able to do anything yet; they have not been allowed to advertise in "Eggs."

M. F. D. (Bexhill). As you say, your feeding is very expensive. You will find a cheaper method advised both in the pamphlet and in these columns. You will find plenty of genuine Sussex ground oats advertised in our columns, it is hardly a question of how long they will keep, all meals deteriorate in value the longer they are kept, they do not necessarily go sour or bad, but they lose their nutritional value, therefore it is advisable not to overstock. With your few birds I would not buy more than a ½-cwt. at a time. I would advise you to buy a hot-air machine, it would be cheaper, and as you are a beginner more easy to manage.

### POST-MORTEMS.

G. Simmons.—Your hen died from peritonitis, due to having ruptured a yolk sac internally. You will remember the hen you sent to me some weeks ago. I should be much interested to hear from you whether the trouble stopped with her death, or whether the infection spread to other birds.

M. B. (Foxlee).—I found Coccidia in your chick, so it evidently had coccidiosis. You had better treat it according to my article in "Eggs," giving a third teaspoonful of powdered catechu in each gallon of water,

along with bicarbonate of potash. The Coccidia were not numerous, so I hope the disease will not spread. If you have any difficulty in getting the powdered catechu, let me know.

When a bird is not received till Saturday it is impossible for the report to appear in the next issue of "Eggs," as all reports have to get to Mr. Newman by Saturday morning. There was nothing wrong with the crop.

E. B. (Longton).—Your bird had congestion of the kidneys, enlarged spleen, and nasal discharge, and conjunctivitis. Your letter arrived after the bird had been examined; but even if it had come earlier I have no facilities for chemical analysis. Besides, digitalis poisoning can be detected during life. Had the bird the cardiac and respiratory signs? I think that the indications rather point to infection. Could you take the temperature of some of them (bulb in the vent) and report to me?

C. M. C. and R.I.R.—The whole intestine was covered with cancerous growths, which were also invading the liver and ovary. As you have lost other birds lately, it is probable that more may be infected. Any that die should be opened and examined. I don't think you would have got much good from eggs laid by the bird. Please do not cover birds with Izal before sending them.

E. H. (Oxon).—Your young turkey looked as if it had Coccidiosis, but I could not find any Coccidia. I think you had better try the treatment for Coccidiosis which is, one-third teaspoonful of powdered catechu with bicarbonate of potash in one gallon of water.

F. M.—A large hard tumour was attached to your bird's oviduct. She had peritonitis through rupturing a yolk sac internally. Probably from the pressure of the tumour. This would also account for the flattened eggs. I don't think the tumour was cancerous.

Your birds had a nasal discharge, also congestion of the liver and kidneys. I think the cause may be a chill. Are there any draughts in their house? The fee is 2s. for one bird, not for two.

G. Cree.—Your bird had internal gout. Her kidneys were blocked, and urates were deposited on the heart, liver, etc. The cause of this was that you give 10 per cent. Fish Meal to birds on free range in the summer, when they can find all the animal foods they need. She had also ruptured a yolk sac internally. Please note that your P.O. did not arrive.

R. M. Woolley.—The fee is 2s.

#### BRIAREUS.

was a colossal giant, with a hundred hands and fifty heads. You ought to be similarly equipped, Mr. Poultry Keeper. Accidents WILL happen on your farm, but a little foresight will often save endless regrets and heavy loss.

An Insurance Policy against fire, theft, damage by storm, foxes, etc., can be effected through "Eggs" at the minimum of expense and trouble. Why not drop a post card to The Advertisement Manager, 94, Farncombe Street, London, S.E.16, for proposal forms, rates of insurance, etc., which he will furnish free and post free.

## National Poultry Institute List

TO MEMBERS OF S.P.B.A. AND READERS OF  
"EGGS."

(To the Editor "Eggs.")

July 18th, 1922.

Ladies and Gentlemen,—I thank you very sincerely for the support you have given to our appeal for contributions towards the fund the S.P.B.A. is raising for The National Poultry Institute. It is a matter for congratulation that the £500 mark has been passed, and I now have no doubt that we shall ultimately obtain the £1,000 we have set ourselves out to raise.

So far poultry keepers have not shown that they appreciate the offer that has been made, or that they realise the advantages that the Institute will bring to the Industry. Not one quarter of the Members of S.P.B.A. have yet sent contributions, and there is also no doubt a considerable number of poultry keepers who read, and gain information from "Eggs," who are not Members of the Association, but from whom donations might be expected. A contribution of, say, 2s. 6d. or 3s. per head, from these sources would give us the sum we are aiming at.

The very handsome donation from Messrs. Armitage Bros. is not only just appreciation of Mr. Newman's great work in advising how to feed, and the influence "Eggs" has been, and is, in this matter, but it should also be an incentive to other firms who have derived benefit from the growth of the Poultry Industry to follow their excellent example.

Again thanking you for your effort, and in the confident expectation that with your further assistance the National Poultry Institute will soon be an accomplished fact.

I am,

Yours faithfully,

J. GERARD KITSON,

President.

#### EIGHTH LIST.

Brought Forward ... £510 18 5.

	s.	d.
C. Hutchinge	1	0
G. H. Greaves	2	6
Dr. R. Coope	5	0
Mrs. Anderson	10	0
Miss M. Short	5	0
Y. Z.	10	0
L. Fearnside	2	6
F. W. Beeson	5	0
W. J. Angus	5	0
J. M. Burnett	3	6
G. A. L.	40	0
F. Carey Bouch	21	0
W. Connolly	1	0
S. R. Williams	1	0
Capt. E. Carter	5	0
J. M. Evans	4	0
J. Robinson	2	0
T. Astin	2	6

	s.	d.
A. Stanley ... ..	5	0
W. Stanley ... ..	5	0
Wadhurst Branch (Second Donation) per J. Everard ... ..	15	6
C. E. Richards ... ..	1	0
Miss D. Ovenden ... ..	1	0
L. de la Garde ... ..	10	0
A. Faulkner ... ..	6	0
Maj. A. L. Cartwright ... ..	10	0
G. Astley ... ..	2	0
R. Birtwistle ... ..	5	0
Lt.-Col. C. Hull ... ..	15	0
C. F. Maitland ... ..	2	0
Sydney Hope ... ..	5	0
G. Haseltine ... ..	21	0
J. Trevor Dickson ... ..	10	6
R. Pomfret ... ..	2	6
Mrs. J. W. Butler ... ..	5	0
J. L. Scuth ... ..	20	0
Mrs. A. M. Halsey ... ..	2	0
G. L. Lowcock ... ..	20	0
The Strand Hotel, Ltd. ... ..	21	0
W. E. Pryce-Jones ... ..	5	0
H. H. Rivett ... ..	5	0
J. Dray ... ..	2	6
N. Rushworth ... ..	2	6
E. Crosland ... ..	2	6
A. E. Phillips ... ..	2	4
H. Hewitt ... ..	5	0
W. Hawkins ... ..	2	0
J. H. Sutcliffe ... ..	10	0
W. J. Linney ... ..	2	0
R. J. Pepperdine ... ..	2	6
Mrs. Athol Stuart ... ..	10	0
F. W. Wait ... ..	21	0
H. J. Arkell ... ..	10	6
W. James Finch ... ..	7	6
F. and T. Lumb ... ..	5	0
H. Hooton ... ..	5	0
Capt. H. Oscar Perkins ... ..	10	0
E. J. ... ..	21	0

Total ... .. £532 10 3

## Market Report.

### MINISTRY OF AGRICULTURE RETURNS, WEEK ENDING, FRIDAY, JULY 21st, 1922.

**GRAINS AND FEEDING STUFFS.**—The firmer tendency in British wheat prices is still apparent, the average price 57s. 6d. per 504 lbs., showing an advance of 6d. on the week. Home-grown barley and oats are firm in value. Maize is in short supply, and prices are decidedly higher.

Millings offals are in fair request, and prices are maintained. Maize products have a firmer tendency, maize germ being especially dearer.

**MILLERS' OFFALS.**—Bran (British): Bristol, £7; Hull, £6 7s.; Liverpool, £6 7s.; London, £6 10s. Broad Bran: Hull,

£7 17s.; London, £8. Fine Middlings (Imported): London, £9 10s. Coarse Middlings (British): Bristol, £9 12s.; Hull, £9 2s.; Liverpool, £8 10s.; London, £8 10s. Pollards (Imported): Bristol, £8; Liverpool, £7 7s.; London, £7 5s. Rice Bran: Bristol, £8; Liverpool, £7 15s.; London, £7 17s. MEAL.—Barley Meal: Bristol, £11 10s.; Hull, £10 5s.; London, £11 5s. Maize Meal: Bristol, £9 15s.; Hull, £9 10s.; Liverpool, £9 10s. Maize Meal (S. African): Hull, £8 10s.; Liverpool, £9; London, £8 15s. Maize Germ Meal: Bristol, £9 15s.; Hull, £9 5s.; London, £9 12s. Maize Gluten Feed: London, £9 5s. Locust Bean Meal: Bristol, £9; Hull, £9; Liverpool, £8; London, £8 15s. Bean Meal: Hull, £13 10s.; London, £13 10s.

### EGGS AND DEAD POULTRY.

Week-end prices per 120: English, 18s.; Irish, 15s., 15s. 6d.; Dutch all brown, 16s., 17s., 14s., 17s. 6d.

### EGGS.

Per Doz.—Ashford: First, 2s. 1d.; Second, 2s. 0d. Birmingham: First, 1s. 11d.; Second, 1s. 10d. Carlisle: First, 2s. 0d. Chelmsford: First, 1s. 9d. Denbigh: First, 2s. 0d. Derby: First, 1s. 10d. Dorchester: First, 1s. 8d. Exeter: First, 2s. 0d. Hereford: First, 1s. 6d. Hull: First, 2s. 0d. Ipswich: First, 2s. 3d.; Second, 2s. 0d. King's Lynn: First, 1s. 8d. Lincoln: First, 2s. 0d. Llandilo: First, 2s. 0d.; Second, 1s. 10d. Newport (Mon.): First, 2s. 2d.; Second, 2s. 0d. Norwich: First, 2s. 1d. Oswestry: First, 1s. 8d. Penzance: First, 1s. 6d.; Second, 1s. 5d. Salisbury: First, 1s. 10d.; Second, 1s. 8d. Shrewsbury: First, 1s. 9d.; Second, 1s. 8d. Skipton: First, 1s. 9d. Taunton: First, 1s. 9d. Truro: First, 1s. 5d. York: First, 2s. 0d.

### FOWLS.

Per lb.—Birmingham: First, 1s. 8d.; Second, 10d. Derby: First, 1s. 4d.; Second, 9d. Exeter: First, 2s. 0d. Hereford: First, 1s. 6d.; Second, 1s. 0d. Ipswich: First, \*5s. 6d.; Second, \*3s. 6d. Lincoln: First, \*5s. 0d.; Second, \*3s. 6d. Llandilo: First, 1s. 10d.; Second, 1s. 7d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 2s. 0d.; Second, 1s. 6d. Shrewsbury: First, \*7s. 6d.; Second, \*6s. 0d. Truro: First, 1s. 7d. York: First, \*5s. 6d.; Second, \*4s. 9d.

### DUCKS.

Per lb.—Birmingham: First, 1s. 8d.; Second, 1s. 4d. Exeter: First, 1s. 6d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 10d.; Second, 1s. 8d. Shrewsbury: First, \*9s. 6d.; Second, \*8s. 6d.

\* Per Head.

### APPLICANTS FOR MEMBERSHIP.

Weaver, Miss B. F., Woodside, Weston-in-Gordano, Som.  
Portishead, Som.  
Molesworth, J., The Glebe Poultry Farm, Balcombe, Sussex.  
Walmsley, Capt. Reg., Hollowforth, Woodplumpton, Nr. Preston.  
Barron, Tom, Catforth, Preston.  
Gillieron, T. E., Glenridding, Brampton, Cumberland.  
Stevenson, Mrs. L. N., Park Villas, Hallgate, Cotingham, Yorks.  
Crawford, T. L., Inglenook, Chander Hill, Chesterfield.  
Messrs. Palmers, Commercial Egg Farm, The Rookery, East Dereham, Norfolk.  
Cloudsdale, Mrs. S. C., The Firs, Lake View Road, Felbridge, East Grinstead.  
Gray, Oscar, Fridaywood, Colchester.  
Williams, H. H., The Nook, Thatcham, Berks.  
Priestley, A. E., Paxton Hill House, St. Neots, Hunts.  
Spillett, S. W., Oakleigh, Oak Lane, Minster, Sheerness.  
Hull, Lt.-Col. C., Foulford Farm, Hightoun, Ringwood.  
Salisbury, Mrs. M. G., Slaley Vicarage, Riding Mill, Northumberland.  
Cheesbrough, C. D., Carlton, Nottingham.  
G. de C. Drury, Woolavington Vicarage, Nr. Bridgwater, Somerset.



## Correspondence.

### SUSSEX AGRICULTURAL SHOW.

Dear Sir,—I hope you will be able to spare me space in your paper to call attention to a point, which struck me very forcibly, in the excellent treatment of the birds which were exhibited at the Sussex Agricultural Show at Hastings this week, and that was the plentiful supply of green food, fresh young lettuce being given on both days. The bright, alert condition of the birds, even on the second day, shewed plainly what a difference this addition to the ordinary Show diet had made to them.

The hearty thanks of the exhibitors are undoubtedly due to Mr. S. C. Sharpe and his stewards for this and many other points in their care and consideration for the birds in their charge.

Yours faithfully,

(Mrs.) H. H. KENT.

### BRAN.—IS IT A STOMACH IRRITANT?

(To the Editor "Eggs.")

Dear Mr. Editor,—With regard to the feeding of Bran, I should like to say a word or two. I have used Bran (dry) for 16 years, and find it gives first-rate results. If it is an irritant, it is time some of the ill-effects showed themselves in the stock. I use it in the following manner: After the wet mash has been dried off, throw in the Bran, and mix again, this lightens the mash and none is wasted.

The mash is composed of Midds, Bran, Bean Meal (English), Maize Meal, cut Clover Hay, Malt Culms, and Fish Meal.

No S.G.O., these are too dear for my liking, and are generally milled from inferior thin foreign oats that are too poor to sell as whole oats. I can never understand why most poultrymen fight shy of the English bean meal, this meal, run over a sieve to extract part (not all) of the husk, is the cheapest and best meal we have, used in moderation.

I append a few results over the last three years to show that bran does not kill them all:—

Fertility of Eggs.	Deaths to Laying Stage.
1920—95 per cent. 80 " "	5 per cent.
1921—92 " " 79 " "	3 " "
1922—90 " " Hatched.	Nil to 3 months.

Any reader of "Eggs" is welcome to come and have a look for himself, and see if he can find any trouble brewing through the use of bran. We always use cold water, or just chilled, to mix meals, barring clover or malt culms.

J. H. COOPER.

Reliance P.F.,

Rayleigh, Essex.

### RE NATIONAL POULTRY INSTITUTE—TO BE OR NOT TO BE.

(To the Editor "Eggs.")

It must be, we cannot afford to lose what the Government has so generously offered to us all as Poultry Keepers. A good many people are dissatisfied at the way the funds are coming in.

We must take into consideration the hard times a good many of us have had, with bad hatches, the cost of rearing our stock, and the low price of eggs.

I know a good many Poultry Farmers are working with very little capital, and cannot afford to give as much as their hearts would desire, and we know a good many would not like to illustrate the circumstances and have their name beside a few shillings.

Well, Sir, as a constant reader of "Eggs," I would like to take advantage of its valuable columns, and appeal to the Secretaries of all Societies to call their members together and ask them to give a good Cock Chicken and a good fat hen, or more if they wish. The Secretary to send same to the nearest market for table purposes, and all moneys to be sent from each Society either to the S.P.B.A. or any other, such as the Lancashire Federation, etc.

I think this scheme would bring in all the money we want.

Yours very truly,

HARRY HOLT.

### BROODERS.

(To the Editor "Eggs.")

Dear Sir,—With reference to your Editorial of current issue, regarding the possible solution of the problem of the best type of brooding arrangement, I venture to make a suggestion.

I have been using the round sanitary hovers for rearing this season. The hovers were placed in small houses 6 x 4 x 5, and I wired in a portion of the grass run to prevent straying. The point which struck me most was this, whenever I went to attend the chicks, I could always detect that nasty, warm smell of burning paraffin; in fact, the air inside the houses seemed to be packed with the offensive odour, which came from the fume pipes of the hovers. The fume pipe supplied is not sufficiently long to go through the roof, so I suggest cutting a hole in the roof and passing another pipe through to carry the fumes to the outside air.

The advantage of this arrangement would be that the air in the brooder house would be more near the temperature and purity of the air in the coop. I intend trying the experiment next season, and send the suggestion along for what it is worth.

Yours faithfully,

JOHN W. RUDD.

### DISEASE GERMS.

(To the Editor "Eggs.")

Dear Mr. Newman,—In your leading article in this week's "Eggs" you invite suggestions as to why

disease develops more in incubated chicks than in chicks reared under hens, and why the percentage hatchability is greater in large brooders than in small ones.

Doctors have told me that if they wanted to hatch germs, they would be inclined to borrow an incubator, no surer "ideal germ hatcher" could be found. A hen sitting on eggs is by no means an ideal germ hatcher. If eggs with a germ on them, or in them, are put in an incubator the germs in the eggs are likely to hatch quicker and better than the chickens in the eggs. Under a hen the chickens have more chance than the germs. I don't think those who study diseases and examine dead chicks would testify that no chicks hatched under hens develop B.W.D. In all epidemics crowded quarters suffer most; of course, in big brooders the infection spreads much more rapidly. It seems to me the only cure is to put eggs without germs into the incubators, and therefore the thing to do is to try and trace the source of the germs in the eggs.

Yours truly,

(Miss) B. MYLNE.

We do not remember that it has been suggested that no chicks hatched under hens develop B.W.D.; in fact, we know that they do. What we are trying to show is that certain environmental conditions are conducive to the development of the disease, or so weaken the chick as to render it more susceptible to the disease.—(Editor.)

## BROODINESS IN RELATION TO FERTILITY, HATCHABILITY, and STAMINA, WITH SOME SUGGESTIONS FOR FEEDING HIGH-FECUND BREEDING STOCK.

By Lt.-Col. F. W. HARDY.

So much has been done of late years to eradicate broodiness from certain breeds naturally subject to it, with the idea of increasing the egg-yield, that I venture to pen these few lines in order to point out the undesirability of so doing, at least in so far as a moderate degree of the same is involved.

Broodiness is a natural stage in the life history of the hen. Man has improved on nature in many ways, but he has also fallen into many errors. Two thousand years ago, the poet Horace, who was a keen farmer, wrote: "You may drive out nature with a pitchfork, nevertheless she will run back again." Had he lived in the present day, he might have added, "and if you persist in your tactics, you may have cause to regret it."

When a hen goes broody, she gives up her sexual for her maternal instinct. The change is complete. The Ovary takes an absolute rest. Now mark what this means. Eggs contain a considerable amount of the Vitamine known as Fat-soluble A, a large amount of Water-soluble B. When a hen has been laying steadily for some time she has got rid of a great deal of these Vitamines in her eggs. Vitamines

are produced only in Vegetable kingdom, the hen must get them directly from vegetable foods, or from foods derived from Animals that have themselves fed on them. Unless the intake of these Vitamines is kept up in sufficient abundance, the eggs will suffer and the hen will suffer. The hen may go off her legs for lack of Vitamine B, inducing Polyneuritis. The egg loses the growth factor Fat-soluble A, intimately associated with the formation of bone, and the anti-neuritic factor Water-soluble B, which is also necessary for growth in the young, and which is believed to raise the resistance of the chick to bacterial infections. Small wonder then that in high-fecund stock we often have poor fertility, bad hatchability and delicate chicks, especially in the later months of the breeding season, when the hen is becoming exhausted. But here broodiness steps in, the Ovary takes a complete rest, Vitamines begin to accumulate once more, reserves of fat are again stored, and in due course the hen produces a sound egg. There may be other factors at work, but I venture to think the above offers a fairly accurate explanation of the whole matter.

It can, however, be put to absolute test when we get our Research Institute by feeding experiments on rats and pigeons, in which the only vitamines present are derived from eggs (1) taken from hens of robust and active strains early in the season; (2) ditto from hens of high-fecund strains, after a prolonged period of laying. Weighed amounts of yolk would be added to a Vitamine free diet, and the effect on the growth of young rats, or the onset of Polyneuritis in pigeons, observed.

A friend of mine remarked the other day that he thought of giving up White Leghorns, the loss through infertile eggs, dead-in-shell, and delicate chicks was so great. Well, White Leghorns seldom go broody, and their egg production has been brought to so high a pitch that the Ovary does not get sufficient rest. It is usual to put down this failure to in-breeding. It may be so, but let anybody consider the average run of barn-door fowls on a mixed farm, say, 20 years ago. No line breeding here, but the stock probably hopelessly in-bred. Yet it was quite a common sight in May and June to see a hen with a dozen sturdy chicks trotting along after her. None but the most vigorous cocks ever got near the hens, while the latter were not exhausted by heavy laying.

Can we do anything to help our high-fecund non-broody varieties? Yes, I think we can. They should be fed on substances rich in the appropriate Vitamines. For "A" there is nothing to come anywhere near Cod Liver Oil, which contains about 600 times as much of this Vitamine as butter does. The method of administration is important. It has been incorporated with Fish Meal, but this is not altogether desirable, as it might in the future lead to the use of red fish once more, with tainted eggs and other evils in its train.

Red fish can only be effectually ruled out by insisting on a maximum oil content of 4 per cent. Those who use Wet Mash will find that it is easily mixed with fine biscuit meal, while Dry Mash can

rub it up with the Bran before mixing the latter. The amount required should not be more than one half per cent. of the mash—not the bran. It would be well to commence with a good deal less.

We may look upon Cod Liver Oil as a highly concentrated solution of Vitamine A, and it is for this purpose that we require it, not for its oil content. Half per cent. represents about half a pint of oil to one cwt. of Mash, and costs about 6d. I am speaking here of the preparation known as Veterinary C.L.O. Plenty of green vegetables are also a useful source of the above Vitamine.

For "B" Dried Yeast is quite the best, and is also useful as containing about 42 per cent. of good protein, a considerable amount of valuable salts, and a bitter tonic principle derived from hops. Half the Fish Meal may well be replaced with Dried Yeast as a change.

Bran also contains a considerable amount of "B," and is useful both on this account and for its Mineral content.

Maize Germ Meal is rich in "A" and "B," and is admirable for Winter use, especially with pullets.

We come now to a second advantage of broodiness. Here we make an intelligent use of the fact that by allowing a broody hen to rear a clutch of chicks, or even to sit out her time on dummy eggs, in summer, she will go into an early moult, and in consequence be amongst the first to lay the following winter. Whatever opinions there may be as to the best date to hatch pullets, we all want early cockerels, whether for the breeding pen or the table.

The results of the Harper Adam's and National Laying Tests show that a moderate amount of broodiness does not interfere with taking a high place in the Order of Merit. I think, therefore, on all grounds we should hesitate to breed out broodiness until further light has been thrown on the matter by Research.

## ATTENDING TO SMALL THINGS.

By SENEX MONTIS.

At one of Mr. Newman's Lectures, the question was asked as to the best breed for Intensive Work, Heavy or Light. The answer was in favour of the Light Breeds. However, I begged to differ, stating that I did better with the Heavy Breeds. Mr. Newman's reply was a compliment on the cleanliness of my houses (this is not repeated with any idea of self-praise). The houses are kept clean, but for purely selfish motives.

First and foremost of these is a great horror of undesirable company. The ancient mariner had no love for those "slimy things that crawled with legs on a slimy sea," and I have just as much aversion to those creeping things that creep with legs, etc.

The second motive is the conviction that nothing—be it bird or beast—can thrive and remain profitable in unsanitary surroundings.

It has been said that three-quarters of the diseases amongst Poultry can be put down to unsanitary sur-

roundings, and the remaining quarter to bad feeding.

Our Editor is always doing his level best to show us how to avoid the evils of bad feeding, and by his efforts in this direction we have all greatly benefited. All for one quarter of the trouble. But how few will take up the cudgels to battle against the other three quarters?

Keep your fowl houses clean and you will be rewarded with an extra output of eggs. It is of little use to feed properly if the nourishment derived from good food is sapped from the birds each night.

**Do it now**—the warm weather is setting in and the little vermin begin to multiply. Keep the creosote pot handy, a dab in time saves nine. It has been said, possibly with a certain amount of exaggeration, that they become grand parents in twenty-four hours.

A poultry keeper told me, that last Summer his fowl house got in such a state, through neglect, that he had to go over the roof and walls with a blow-lamp and burn them out. No doubt he got in a state also during the operation. I advised him to get rid of the perches with the bark on and fix up fresh ones of planed quartering, also to fit up dropping boards if he did not want the same trouble this year.

The old Spanish proverb which says, "He that lies down with fowls must expect to rise up with fleas," may be true enough in Spain, but should be falsified by every member of the S.P.B.A.

There is another matter in connection with cleanliness which is seldom mentioned; one that requires quite as much care as the fowl house—and that is the food store. The best foods are often spoiled for want of a little forethought in this department. Fresh supplies of meal especially—are frequently emptied into the bin before the old stock has been cleared out. Meal at the bottom of the bin is liable to get a trifle damp, and if a fresh supply is put on top, it is likely to start heating and soon gets full of mites. "Gone Minty" is the expression used in Sussex.

When fresh supplies are got in, say once a month, it is advisable to have reserve bins, so that the new lot may be put in well-cleaned bins.

Metal bins are best as they are also ratproof. Carbide tins are very useful and can often be procured for a low price when an acetelene gas plant is near. They are especially good for storing Fish Meal, as the covers fit on tightly and exclude air to a great extent.

There should be a Spring cleaning in the food store, as each bin becomes empty take it out in the open air, give it a good sweep inside and outside with a stiff brush. If possible leave it out in the sun all day.

The Mill Moth is a great nuisance at times, and a good look out should be made to destroy the grubs which will generally be found attached to the sides and in crevices of wood bins.

Once mites are allowed to get a hold in the store, they soon make the food unpalatable to the fowls, and is a frequent cause of birds going off their feed.

When this happens just examine the meals with a microscope, and you may perhaps be saved the trouble of sending a question on feeding to the Editor. The sense of smell also ought to be sufficient to let one know when the meal is out of condition.

# BREEDERS' SPECIALITIES.

## ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

BOUGHTON via NORWICH.

GEO. N. WORTERS,

UPLANDS POULTRY FARM, ROTHER-  
FIELD, SUSSEX.

LIGHT SUSSEX, RHODE ISLAND REDS,  
LEGHORN - SUSSEX, LEGHORN - B.I.R.,  
FAWN AND WHITE RUNNIE DUCKS.

Pullets and Stock Birds from trap-nested  
hens.  
Over 300 Trap-Nests in use.

## MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I. Reds (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

F. J. HOUGHTON,

IVANHOE POULTRY FARM, FRITH END,  
Near FARNHAM.

F. J. HOUGHTON wishes to point out  
that he is unable to fulfil any more orders  
owing to the Extension of his Farm this  
season. But asks prospective customers to  
place their orders Now for White Leghorn  
Sittings, Day-Olds, and Pullets for next  
season, and thus avoid disappointment.

## Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

## IF IT IS ADVERTISED IN

" E G G S "

You can depend on it.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."

## WHITE WYANDOTTES.

L. WILLIAMS,  
Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

PEDIGREE WHITE LEGHORNS ONLY.

WALTER PROCTOR.

Hares Hill Road White Leghorn Farm,  
HEYWOOD, LANCOS.

200 1920 and 1921 hatched Birds, laying:  
7s.-10s. 6d. and 12s. 6d. each.

Catalogue Free.

## F. C. TOMLINSON, M.S.P.B.A.,

Knott Hall Poultry Farm, Holpringham,  
Sheffield.

Breeder of High-Class Utility Stock.

White Wyandottes, Anconas,  
White Leghorns, Rhode I. Reds,  
and White Runner Ducks.

Sittings from 7s. 6d. Day-Olds from 15s.  
Mating List Free.

MAJOR E. P. WIDDICOMBE,

S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

## Coaley Poultry Farm, GLOUCESTERSHIRE.

COALEY FAWN DUCKS still leading for  
7th month at Bentley. Eggs and Ducklings.  
Pullets, Cockerels, Stock Birds.

White Wyandottes, Buff Orpingtons,  
White Leghorns, Light Sussex,  
Rhode Island Reds, Black Leghorns.

E. BROOKE WRATTEN  
(Successor to Miss Edwards).

## HOLMES and HOLMES,

S.P.B.A., N.U.P.S., L.B.P.S.,

T.A. FOXDELL, CHALFONT, ST. PETER'S.  
Breeders of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.

Telephone: Chalfont St. Giles 54.

EVERY MEMBER OF THE

S.P.B.A.

SHOULD TAKE ONE OF

THESE SPACES.

MISS N. B. MADDISON,

M.S.P.B.A., F.N.U.P.S.  
Pedigree Breeder: Rhode Island Reds, Light  
Sussex, White Leghorns.

Winner of the S.P.B.A. Laying Test. 1st  
out of 100 pens of all breeds. 2nd for six  
months in National Laying Test now  
running.

Eggs, Cockerels, Pullets, and Breeding  
Pens.

Full Particulars Given.

BROOKSIDE, DANE HILL, SUSSEX.

R. J. HUBBUOK,

Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinchurst Poultry Farm,

Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

Stock Birds, Day-old Chicks, Hatching Eggs.

etc. High-Class Utility Stock.  
White Wyandottes, Light Sussex.  
Croad Langshans, R.I. Reds.  
White Leghorns, Black Leghorns.  
White Runner Ducks.

H. W. HONEY,  
S.P.B.A., N.U.P.S., P.C., Etc.  
ALTON, HANTS.

Manager, Tottenham Laying Test.  
Hon. Sec., Alton and District U.P.S.

## K. E. FIELD-HART

### WHITE LEGHORNS

Breeding Hens for Sale in Sept.

THE LIMBERLOST,  
HEATHFIELD, SUSSEX.

Mrs. HARRY KENT,

Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.

Telephone: 23 Handcross.

Exhibition and Pure-bred Trap-Nested  
Utility Poultry.  
LIGHT SUSSEX.

WHITE LEGHORNS.

BLACK LEGHORNS.

Speciality.—Three Months' Old Pullets from  
15s.

Illustrated Catalogue Post Free.

WALTER FOSTER,

Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.  
Breeder of Pedigree Trap-nested Large  
Egg.

White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.  
Cockerels and Pullets.

Breeding Stock of the Highest Class.  
Particulars upon Application.

## ONE OF THESE SPACES COSTS:

13 weeks, 5s. 6d. per insertion  
26 " 5s. 0d. " "  
52 " 4s. 6d. " "

(Not less than 13 accepted).



## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series, of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	4
6 " " " "	6
9 " " " "	8
13 " " " "	8

### FOR SALE. PULLETS.

Ten **LEGHORN-CROSSED PULLETS**, laying; 8s. 6d. each.—McEniry, Wayside Poultry Farm, King's Langley, Herts.

February and March hatched **RHODE ISLAND REDS**; March and April hatched **BLACK LEGHORNS**; price 10s. each; particulars of strain given.—Sicklehatch Farm, Horeham Road, Sussex.

**R.I.R. Pullets**, 1922, March hatched, 12s. 6d. each (Golden's), **WHITE LEGHORN Pullets**, 1922, April hatched, 12s. 6d. each (Barron's).—Manager, "Broadwater," Framlingham.

Three months old.—**R.I.R. PULLETS**, Studd's National Winning Strain, from trap-nested hens, records 200-280; mated 281-299; price 10s. 6d. each. Also February and March hatched Cockerels; same strain; from 260-281 record hens; from one guinea.—Miss D. Hasler, Little House, Frinton-on-Sea.

12 **SPECKLED SUSSEX Pullets**, hatched January, 1922; laying; Walmsley sire; 15s. each. Eight guineas lot. Carriage paid.—Lunn, Ottery St. Mary.

20 Tom Barron **WHITE LEGHORNS**, all trap-nested; hatched March, 1921; in full lay; 15s. each; room wanted.—Harry Woodroof, S.P.B.A., South Lodge, Bishops Stortford.

Yearling, **BLACK, BROWN LEGHORN Pullets**; 6s. 6d. each.—Jasmine, Woodberry Grove, North Finchley.

### 1922 PULLETS.

Three **WHITE WYANDOTTES**, hatched February 4th; cam's; £1 each. Also limited number of **WHITE LEGHORN** (Barron-Metcalf); February, March, April; 17s. 6d., 15s., and 12s. 6d. each. All from trap-nested L2 stock.—S. Lawton, Nickhouse Farm, Mirfield.

**WHITE LA BRESSE Pullets** (Newman and Norwood's), **BLACK LA BRESSE Pullets** (Onslow-Piercy), **WHITE LEGHORN Pullets** (Newman and Norwood's); all hatched March, 1921, and in full lay.—Dr. Readman, Frankleigh, Bradford-on-Avon.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Col. and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach **Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16** by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

February, 1922, **R.I. REDS** (Boucher strain, well matured; 21s. each; from trap-nested L2 stock. March, 1921, **WHITE LEGHORN**, Barron strain; 8s. each. March, 1921, **BLACK LEGHORN**, Burn Murdoch strain; 8s. each.—S.P.B.A., Shortlands, New Milton, Hants.

### WATLINGTON POULTRY FARM, OXON.

50 Early April-hatched 1922, **WHITE ORPINGTON Pullets**; 8s. each; in lots of 25; 7s. 6d. each. Carriage paid.

### PULLETS LAYING NOW.

**R.I. REDS** (Boucher-Crowley), **W. LEGHORNS** (Cam). All from trap-nested L2 stock; price £1 1s. each.—Mrs. Simpson, S.P.B.A., The Cedars, Sunbury, Middlesex.

### HENS.

#### BLACK LEGHORN HENS

All hatched last year. Splendid birds. Upjohn-Metcalf; 12s. 6d. each. Carriage paid six. Room wanted.—Milestone Egg Farm, Patrinbourne, Canterbury.

150 **WHITE LEGHORNS** (1921), also 100 **R.I.R.'s** (1921); 10s. each. Room wanted for young stock. Carriage paid on 20.—Gorton, Kynance Egg Farm, Compton, Winchester.

**WHITE LEGHORN Hens**, must be cleared to make room. Carefully culled. Splendid stock birds. All hatched last year. 12s. 6d. each. Carriage paid six.—Milestone Egg Farm, Patrinbourne, Canterbury.

Stock Birds, 1920 and 21, **WHITE LEGHORN** and **R.I.R. Hens**; must be cleared for room for young stock, at from 5s. to 10s., according to age and records. Trap-nested and carefully culled for stamina, 12 birds or over, carriage paid.—Parsons and Sons, Ashmead Poultry Farm, Ash, Surrey.

### COCKS AND COCKERELS.

**R.I.R. Cockerels**, February - March hatched; dams (Boucher); records 212-258. **W.R.**, 45-65; sires, sons of Mr. Boucher's famous hens, 37 and 48; from 12s. 6d. now. Also booked for autumn delivery. **White Silkie Eggs** and **Stock Birds**.—Miss Simpson, Calibae, Killearn, by Glasgow.

**WHITE WYANDOTTE Cockerels**, 12 Edward Cam's strain, March birds, 2 each.—Hardy, Bankside Poultry Farm, Thorne, Doncaster.

1922 March-April hatched 50 **ANCOR Cockerels** (P. L. Johnson and Charles Larson strain); also 30 **BUFF ROCK Cockerels** (J. H. Cooper strain); both specially selected for stock.—Mrs. Poston, Whitehall, Bedford, Hants.

Cockerels.—**WHITE LEGHORNS**, April hatched, Kenmore strain, from hens of 2 large egg record; 8s. each; three for 2s. carriage paid.—W. Halls, The Laurels, Bowers Giffard, Pitsea, Essex.

Finest Pedigree **WHITE LEGHORNS**. Three 1921 Cocks, Tom Barron direct dam 250 12s. 6d. each. Also 1922 March April hatched Cockerels, pure Barron, sired by 250, tested cock, 7s. 6d., 5s. each, carriage paid on three.—Burnett, City Gardens, Bainsford, Falkirk.

**WHITE LEGHORN Cock**, February, 1922 direct Meeking's; cost 2½ guineas; Padman direct dam 247, sire 264; 21s. Soole-American Cock March, 1921, 8s. 6d.—Huntley, Bleaden, Watton-super-Mare.

**WHITE LEGHORN Cockerels**, March 6th from Metcalfe Cockerels (bred from 340-25 egg hens, sire's dam 230), mated Metcalfe Soole, 1920 hens, which laid 30-70 eggs before January 1st, 1921; 17s. 6d. Ditto, April 12s. 6d. each. No B.W.D. on farm to date.—Miss Baird, Dry's Farm, Malvern Wells.

### 1922 LIGHT SUSSEX.

April hatched, well developed Cockerels Adams and Linkie's special pen; reared on free range (grass), and guaranteed to be a perfect health; grand specimens and from the above firm's best layers; 10s. each, carriage paid.—John Round, M.S.P.B.A., Cefn Lee Poultry Farm, Drayton, near Stoutbridge.

**WHITE LEGHORN Cockerels**, April, 1922 Barron-Padman; good pedigree; 6s. 6d. each. Approval.—Particulars, Green, Ewers Road, Rotherham.

1922 **WHITE LEGHORN COCKERELS** Barron and Metcalf direct; end of March hatched; 10s. each.—Mrs. Douglas, Old Rectory, Hamsey, Lewes.

## IMMUNE COCKERELS.

W.L. Cockerels, now booked, from stock tested Sir F. Andrews; guaranteed immune B.W.D.; £1; reduction for numbers; carriage paid.—Nuffield Poultry Farm, Henley-on-Thames.

BUY STOCK BIRDS NOW AND SAVE.—Magnificent Young Cockerels, WYANDOTTE and LEGHORN; finest strains; 9s. 6d.—Scott, Ortonwatersville, Peterborough.

## J. H. COOPER'S BUFF ROCKS.

Second-to-none strain, line bred, 15 years here. This strain entered by a customer won Harper-Adams' Gold and Bronze Medals, and proof that I still sell the best another customer has again at Harper-Adams' over five winter months, beat all Rocks, R.I. Reds, and Sussex. 1922 Cockerels for sale. Try one. His progeny will assimilate bran and thrive. — Reliance Poultry Farm, Rayleigh.

E.I.R. Cockerels, guaranteed hatched April 6th, by Boucher, from pens 1 and 3; 15s. each.—Daniel, Parade, Barry.

## WATLINGTON POULTRY FARM (Oxon.)

WHITE LEGHORN (Adams'), WHITE WYANDOTTES (Adams'), RHODE ISLAND REDS (S.C.), (Golden), March-April hatched. Fine birds, 8s. 6d. each; four for 30s.; only a few left.

## APPLIANCES.

### CHEAP TIMBER.

3in. x 4in. Sawn Boards, 1s. 1½d.; 3in. x 6in. P.T. and G. Beaded Matching, 1s. 6d.; 3in. x 4in. P.T. and G., v. jointed Matching, 1s. 9d. per sq. yard; 3in. x 2in. Battens, 4s.; 1½in. x 2in., 7s. 6d.; 2in. x 2in., 9s. 6d.; 2in. x 3in., 15s. per 100 ft. Pluvex Felt, 8s. per roll. All free on rail. Special quotations for quantities.—Shipley Fields Poultry Farm, Shipley, Yorks.

Hearson FOSTER MOTHER, £7; Hearson INCUBATOR, £3; both 50 chick size; very good condition. — Mrs. Poston, Whitehill, Bordon, Hants.

For Tents, Shelters, etc., Government Balloon (rubber) Sheeting, 1s. 6d. per yard super, carriage paid U.K.; sample free.—G. W. Page, 58, Grosvenor Cottages, Eaton Terrace, S.W.1. Special terms for large quantities.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

SPECIAL OFFER. — Automatic Water Fountains for poultry and pigeons, ½ gal., 2s. 3d., postage 9d.; 6 for 17s., postage free; quart sizes, 2s., postage 6d.—H. Cooper, 4, Heath Street, Tamworth.

## GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s.; 4 cwt., 26s. 6d. Quantity of slightly soiled, 1 cwt. at 5s. 6d. All have hinged lids. All carriage paid. — Hudson, Sheet Metal Works, Patricroft, Lancs.

"STREET" EGG BOXES, complete with fittings; good as new. Six 30 doz. size, 8s. each, cost 14s. Six 20 doz. size, 6s. each, cost 11s. Will accept £4 the lot. Carriage paid.—"Brookwood" Egg Farm, Pontefract, Denbighshire.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Best galvanised. British only; stamp list.—Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

## BREEDING PEN.

Major A. G. LEE offers a few WYANDOTTE and LEGHORN Breeding Pens at reasonable prices. 1922 Pullets from these pens are very forward and promising. — "Norwood Hayes," Iwer, Bucks.

## DUCKS AND DRAKES.

Wilson's RUNNER Ducks and ANCONA Fowls, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

FAWN and WHITE RUNNER Ducks, 1922 Pullets (Unjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

April and May hatched WHITE RUNNER DRAKES, A. Harold Paine direct; 10s. 6d.—Capt. R. A. Forde, Springfield, Aldington, Ashford, Kent.

## 1922 WHITE INDIAN RUNNER DRAKE.

March hatched, fine bird; "Hermitage" strain; 15s.—Mrs. Douglas Pelly, Old Rectory, Hamsey, Lewes.

Nine RUNNER and BUFF ORPINGTON Ducks, bought from Cook's last year, all laying; 10s. each.—Mrs. Bell, The Mead, Ashstead, Surrey.

FAWN and WHITE RUNNERS. — Miss Cavanagh's pen 42 takes highest position. 7th month Bentley with 803 first-grade eggs. March drakelets, brothers to competitors, 21s. each. Aylesbury Ducks, February, 12s. 6d. White Runner Drakes, 10s. 6d. — Kimmage Grove Poultry Farm, Terenure, Dublin.

30 WHITE RUNNER Ducks (1921), bred from breeding pen purchased from E. H. Taylor; 7s. each.—Gorton, Kynance Egg Farm, Compton, Winchester.

## GOSLINGS.

Very Fine Full-grown GOSGLINGS; 15s.; from a good white, laid 56 eggs last year, 48 this; carriage paid.—S. F. Skipwith, Loversal, Doncaster.

## PIGEONS.

UTILITY PIGEONS, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Colehill, Wimborne.

## RABBITS.

Lester Spurgeon, Wistler's Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for sale.

## DOGS.

Very Well-bred FOX TERRIER PUPPIES, 10 weeks old, will make keen ratters and house dogs; males, 30s.; females, 15s.—Lawton, Nickhouse Farm, Mirfield.

## FOODS.

MAIZE GLUTEN FEED offered at 10s. 3d. per cwt., on rail Ash, or 12s. 6d. cwt. on L.S.W. Railway or S.E. and C.R., under 50 miles, carriage paid; open for three weeks only. Cash, orders.—Parsons and Sons, Corn Merchants, Ash.

## OYSTER SHELL.

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

## CHARCOAL

GRANULATED WOOD, Guaranteed Quality; fine, medium or coarse; half-cwt., 12s.; one cwt., 22s., carriage paid. Also Grits, Meals, etc. Samples free.—Bygrave and Co., Anwell, near Ware.

## SMASHING REDUCTIONS.

Milko Laying Meal, £15 10s. per ton (carriage paid on 2 ton lots) if ordering in lots of not less than ½ ton at a time. Milko Laying Meal is based on milk and balanced by experts. This food is used on some of the largest poultry farms in the country. Once used always used. Unequalled as an egg-producer. Get a supply now. Sample cwt. 23s., carriage paid.—Milko Food Company, Fleet House, Fleet Street, London, E.C.4.

## MISCELLANEOUS.

SUSSEX FOWLS.—Mrs. M. A. Grant, Westlands, Horley, Breeder, Exhibitor, Exporter all varieties. Winners at all principal shows. Exhibition with best utility qualities a speciality.

Free Delivery.—"Eggs and the Intensive World," 4s. 4d.; "The Feathered World," 4s. 4d.; "Meat Trades Journal," 4s. 4d.; "Poultry Keeping," 2s. 2d.—Jackson, Berry End, Knarborough.

## FARM FOR SALE.

For Sale. POULTRY FARM, in Suffolk, two miles from railway, on main road. Consisting of eight-roomed House and Farm Buildings, 66 acres, over 2,000 head of stock. One of the most up-to-date Poultry Farms in the country, including best utility laying strains in R.I. Reds, White Wyandottes, White and Black Leghorns. The above is for immediate disposal as a going concern on account of ill-health. The buyer will be given every assistance for the coming season in matings, etc.—For full particulars, apply Box 105, "Eggs," 94, Farncombe Street, London, S.E.16.

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes and Runner Ducks (all colours). Records to 269. Approval.

To make room for young stock.—1921 Unmated Pullets, WHITE LEGHORN, Frost's strain; from 10s. 6d. each, in full lay. 1920 Barron-Metcalfs WHITE LEGHORN Hens, 285 strain, at 7s. each, in full lay. 1921 WHITE WYANDOTTES, unmated, from 9s. each, in full lay. 1922 Cockerels, Frost's American WHITE LEGHORNS, from 3s. 6d. each.—Miss Keith, Pedigree Utility Poultry Farm, Tangley, near Andover, Hants.

### PADMAN'S PEDIGREE

WHITE LEGHORN Cockerels, April hatched, from two-year-old hens, with records 210 to 249, W.R. up to 60, sired by son of 270-egg hen, by son of 281-egg hen. All toe-punched to individual hens. Personally trap-nested, and all records guaranteed. Hens of good size, and all eggs well over 2ozs. Send for details of prices, pedigree, and punchings, and see that you get what you order. From 7s. 6d.—Will Robinson, M.S.P.B.A., 50, Main Road, Denholme, Bradford.

PULLETS, March and April hatched, from 12s. 6d. each. LEGHORNS (Black, White and Brown); WHITE WYANDOTTES, REDS, INDIAN RUNNER and AYLESBURY Ducks, same age.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

HEALTHY CHICKENS, two months old; 25s. doz.; 10 weeks, 30s.; three months, 35s. Pullets, 6s., upwards. Buff Rock Cockerels (230-egg strain), 10s. 6d. each.—Jakeman, 7, Kimberley Road, Fleetville, St. Albans.

### 1922 WHITE LEGHORN

Pullets and Cockerels, from trap-nested stock; February hatched; Pullets, 15s.; Cockerels, 10s. — Dickinson, Llandefaelog, Brecon.

### HOUSE.

For Sale, near Maidstone, Country House, three reception, five - six bedrooms, usual offices, indoor sanitation, large garden, meadow two acres, two-roomed bungalow in garden, stables, coach-house, large fowl house. Free range for poultry over adjacent orchard.—For full particulars, Box 112, "Eggs," 94, Farncombe Street, London, S.E.16.

### PUPILS.

VACANCY, on 1,000 head Poultry and Pig Farm, for One or Two Pupils, terms on application.—F. Bird, Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Inventor and Maker of Mid-Essex Trap-Nest Front. Agent for Planok Cold Brooder.

### PARTNERSHIP.

WANTED, Working Partnership, in a sound and up-to-date Commercial Egg Farm. Capital available £1,000.—Box 118, "Eggs," 94, Farncombe Street, London, S.E.16.

Boscombe Gentleman replied to Box 100, fortnight ago. Letter mislaid. Kindly write direct to Hallam, Menston, Yorkshire.

### WANTED.

WANTED EGGS. 100 dozen weekly, under tile; not more than four days old. Wanted for high-class trade.—E. Lindley, Woodhouse Mill, Sheffield.

### SITUATIONS WANTED.

RUBBER PLANTER, University Man, ex-Office and wife, with no children, offer Combined Services on up-to-date Poultry Farm, in Exchange for Housing, Board and small salary, with a view to partnership later. Capable and willing; near London preferred; highest references.—Box 114 "Eggs," 94, Farncombe Street, London, S.E.16.

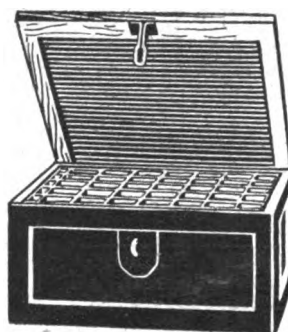
ADVERTISER, ex-Service, slightly disabled, single, 36, some experience poultry farming, seeks Situation; small wage, board lodgings.—Geo. Cooper, 81, Park Road, Lowestoft.

### PULLETS.

WHITE LEGHORN Hens Wanted: full particulars.—Box 101, "Eggs," 94, Farncombe Street, London, S.E.16.

February-March hatched, B.I.R. Pullets.—Full particulars, Monks Farm, Oakwood Hill, Surrey.

Wanted, 25 WHITE or BLACK LEGHORN Pullets, April, 1922, hatched; price not to exceed £7.—Box 117, "Eggs," 94, Farncombe Street, London, S.E.16.



**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.**  
HAMWORTHY JUNCTION, DORSET.

### THE "RATIONAL" EGG BOX.

For sending Eggs in quantity by rail. The lightest, cheapest and best made box on the market. My Special System adopted in making these boxes enables the divisions (which are made to standard and of best Leatherette Boards) to be used for any size of box from a six to thirty dozen. There is no complication of sizes, as the divisions will fit any box of my own make. Customers should particularly bear this in mind, as it will save them a lot of needless worry and trouble. 6 doz. size, 13/6; 12 doz., 16/6; 18 doz., 21/6; 24 doz., 26/6; 30 doz., 32/6 each, less 6 per cent to Members of S.P.B.A.

Strong Leatherette Boxes to hold 12 Eggs, 12/- per doz.

# 100 WHITE INDIAN RUNNERS

March and April-hatched, 1921. These ducks have been hatched and reared on this farm from Taylor's best ducks, sired by Wilson's Drakes. They are all birds of the best type, at present in full lay, and would be very suitable for next year's breeding pens.

**6 Ducks for 50/- Drakes, 8/6 each. Carr. Paid. Returnable Crates, 5/-**

**The Beeches Poultry Farm, MOBBERLEY, CHESHIRE.**

**POULTRY KEEPERS**

Follow the Advice of a well-known Expert who knows How to Make Poultry-keeping Pay.

Read the following Extracts from a letter which appeared in "Eggs," on April 26th, 1922:

"Golden Cross Poultry Farm,  
Hough Green, Widnes.  
We were using ordinary Fish Meal with our mixture until you recommended Fish Meal impregnated with Cod Liver Oil. We at once obtained the latter, and the RESULT HAS BEEN VERY GRATIFYING. We have compared our results with the corresponding yield of last year, and there is a 10 PER CENT. INCREASE IN OUR RETURNS. We have also used impregnated Fish Meal in our chicken mash, and we are satisfied that it is beneficial."

(Signed) H. BROOKSBANK.

Since the above letter appeared Messrs. Bicol Ltd., has received the following from Mr. Brooksbank:—

"The impregnated Fish Meal which I used was BYCOLLA. Such undeniable evidence is clear proof that Bycolla is one of the finest health-sustaining and most nutritious foods now on the market, and every Poultry Keeper should order a supply from his dealer, and watch results."

# BYCOLLA

CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL,

BYCOLLA is extremely economical, one ounce per day being sufficient for 6 hens. This works out to a cost of 0.04 of a ld. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spice should be given.

BYCOLLA contains the purest Veterinary Cod Liver Oil obtainable, and no finer tonic can be given to keep stock in good condition. It is guaranteed to have no effect whatever on the taste of the flesh or eggs if mixed with the ordinary daily feed in the proportion of 10 per cent. BYCOLLA to each mash.

BYCOLLA is wholesome and appetising and birds fed on it are firm of flesh, glossy in feather, full and ruddy in comb, vigorous and productive, giving abundance of eggs all the year round. It is also unequalled for rearing strong healthy chicks, which are impervious to disease, come to early maturity and are kept in better condition than by any other known method of feeding.

BYCOLLA Analysis gives a very high proportion of Food Units, viz.:—164, as follows:—Albuminoids, 60 per cent. Oil, 8 per cent. minimum. Salt, 3 per cent. maximum.

**Price 28/- per cwt.** Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Bags Free. Carriage Paid in England and Wales. Terms: Cash with Order.

SEND FOR SAMPLES TO

**BICOL LTD., HOPE STREET, GRIMSBY.**

(Factory: PYEWIPE, GRIMSBY.)

Bycolla is also sold by dealers at 2s. 3d. per 7lb. bag. If your dealer does not stock, kindly send name and address. Cost of postage refunded.

**POULTRY BREEDERS****DRIED YEAST.**

## Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
Mineral Matter	8.38
	100.00

Nitrogen	7.35
Including Sand	.05

**OSSIFIED YEAST.**

## Analysis.

	per cent.
Moisture	6.86
Oil	12.22
Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
† Ash	21.04
	100.00

* Containing Nitrogen	6.36
† " Phosphate of Lime	18.88
Sand and Silicious matter	0.33
Total Food Units	150

## PRICES:—

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

**JOHN A. BETTS,**

Manor Poultry Farm, Hampstead Norris,  
Newbury.

Once again Offers for Disposal:

EGGS AND STOCK BIRDS

from his

PEDIGREE LAYING STOCK.

SPLENDID SELECTION OF COCKERELS  
and 1921 HATCHED HENS.

in following breeds at 15/- each.

not approved in three days birds will be  
exchanged or cash refunded.

Croad Langshans, Sal. Faverolle, Houdan,  
White Wyandotte, Silver Campine, Ancona,  
Light and Speckled Sussex, R.I. Red, R.C.  
and S.C. Black, White and Brown Leghorn,  
Buff and White Orpington.

Eggs, 8/- per doz.; 45/- per 100. Guaranteed  
90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-  
Campbell Ducks, Eggs 8/- doz. Drakes, 15/-  
each.

White Runner and Fawn Runner Ducks.  
Eggs, 8/- doz. Drakes 10/- each.

All Goods carriage paid to any part of the  
British Isles.

LIST FREE.

**S. & J. PARSONS,**

The Poultry Farm, Musbury,  
Devon.

Breeders of the Highest Class Pedigree  
Utility Stock in White Wyandottes and  
White Leghorns.

Stamina and Size of Egg a Speciality.

Our birds are consistent winners in the  
various laying competitions, which proves  
beyond doubt the question of stamina and  
high-laying quality of our flock.

Breeding Hens from 8/6 each.

Selected 1921 Cockerels from 15/- each.

1922 Pullets from 21/- each.

...1922 Cockerels from 12s. 6d. each.

Our Book, "The Secret of Egg Production."  
3/-.

Further Particulars on Application.

**PORTABLE BUILDINGS.**

BUNGALOWS, SPORTS' PAVILIONS,  
MOTOR GARAGES, POULTRY HOUSES, etc.

We do not advertise to mislead our customers, but to ensure good faith in all our transactions, with our usual guarantee on every structure which leaves our works. Our specifications and prices are unequalled by any firm in the trade.

We do not issue any Catalogues or Price List; if we did our full value for money principle would be impracticable with markets fluctuating from day to day, as is the case in these abnormal times.

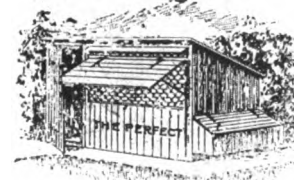
We, therefore, invite all in need of Portable Buildings of every description to send us full particulars of requirements, and we will esteem it a favour to submit estimate, with or without erection, together with full specification on receipt of same.

ALWAYS AT YOUR SERVICE.

ANNISON, ROBSON AND SON,  
"WHINCROFT," RYTON-ON-TYNE,  
Co. DURHAM.

**THE "PERFECT," 5' x 3' x 4' 37/8**

houses your birds correctly to get maximum egg production during winter months, and the price is one which must make your fowls a paying concern. Constructed of 5/8 and 3/4 Matching, with lifting or sliding butter, they are ideal for farm or backyard.



Inspection  
invited.

The HOUSE  
for  
Excellence  
at  
TIMBER  
COST.

L.W.H.	Price.	F. and Jsts.	3/4-in. match
6 x 4 x 4	22 2 0	13/6	23 6 6
6 x 4 x 5	23 0 0	13/6	23 7 6
8 x 4 x 5	23 10 0	17/6	23 5 0

Felted and painted with Solignum free.  
Three Outside Nest Boxes, 11/- See Cat. other sizes.

Intensive Houses and other Portable Buildings, etc.  
**HENRY BROS.** Blackbridge & Walls St.  
Camberwell, S.E. 5.



# Bad Memories

are common in the poultry business. Hatching failures and the disasters of the Chick-rearing seasons are already almost forgotten



88, Wilbraham Road,  
Chorlton-cum-Hardy.  
8th June, 1922.

The Algin Co., Ltd.,  
12, Norfolk Street,  
Strand, W.C.2.

Dear Sirs,—I have used Salubrene with very good results indeed, and I think it is the finest natural vitaliser I have ever used.

Yours faithfully,  
(Signed)  
C. W. SAVAGE

A few of the wiser sort are taking steps to make the next hatching time a more successful one, but the majority will probably go on in the same old way, and in due course cry out again to the same old tune.

"Never knew such a bad hatching season."  
"They were such beautiful Chickens, I simply can't understand what made them die like that." "Too much moisture in the incubator." "Ought to have put more water in the tray." "Could not keep the heat down." "Those two or three cold nights, they did it." "Never use that machine again."

Poor old incubator, how many disasters are laid to your charge! The truth is, that what was good enough for our grandmothers is not good enough for us in these days when the 250-egg hen seems to be found in every other poultry yard.

The more eggs our hens have to lay the more sure we must be that they have everything which Nature provides for perfect health.

Build up the growing pullets on a really scientific foundation in which the all-powerful mineral elements have their proper place, and we shall have no cause to complain of lack of eggs or of difficulty in hatching and raising.

For this purpose nothing can beat SALUBRENE.

# Salubrene

Corn Merchants have  
Salubrene in packets of  
1/3 each.

We recommend you to  
purchase locally when  
ever possible, but if your  
local dealer has not  
stock of Salubrene  
(please send us his name  
and address) we will  
supply either of the following  
direct, carrying  
paid, cash with order.

7 lbs. for  
6/-

Carriage Paid.

28 lbs. for  
20/-

Carriage Paid.

A month's supply for  
20 birds post free 1/6

Full instructions for  
feeding Salubrene to  
chickens, layers and  
breeding pens free.

Successful Poultry  
mashes for all pur-  
poses free for card.

Write to—  
THE  
ALGIN COMPANY, LTD.  
(Desk E),  
12, Norfolk St., Strand  
London, W.C.2.

Cheques and Postal Orders  
be made payable to The ALGIN  
COY., Ltd., and crossed "Bank."

We are EXPERTS in all kinds of  
GRAIN and MEAL for POULTRY  
FEEDING and for the PRODUCTION  
OF EGGS.

	per cwt.	s. d.
CHAMPION MIXTURE	22	0
A.1. MIXTURE (with or without Maize)	20	6
X.B. MIXTURE	18	0
X. MIXTURE	17	0
CLIPPED OATS (Heavy)	20	0
CHAMPION LAYING MEAL	21	0
CHAMPION DRY MASH	21	0
CHAMPION CHICK FOOD, No. 1	27	0
CHAMPION CHICK FOOD, No. 2	27	0
CHAMPION DRY CHICK MASH	23	0
CHAMPION PULLETT MIXTURE	22	0
SPECIAL KIBBLED MAIZE	18	0

DISCOUNT:—6d. per cwt. for 5 cwt.  
and over; 1s. per cwt. for 10 cwt. and  
over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and  
SUBURBS DAILY in quantities of 7lbs.  
and upwards to meet the REQUIRE-  
MENTS OF ALL.

NO DUST OR WASTE. Mixed and Well  
Cleaned by Special Machinery.

Samples and Price Lists free on application to  
**WILLIAM BRINKLER & SONS, Ltd.**

Pigeon & Poultry Food Dept.,

(3) GLAPHAM GRANARIES, LONDON, S.W.4

Telephone: BATTERSEA 211.

## West Mersea Poultry Farm, ESSEX,

Nr. COLCHESTER G.E.Ry.

### EXCEPTIONAL OPPORTUNITY.

#### Room Wanted for Young Stock.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 8d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 8s. 8d..  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records.  
etc., with pleasure.



## Mr. Stubbs on Egg Production

### Monthly Talks on Poultry Matters.

WHEN Mr. Stubbs pauses on his way  
to the "Red Lion" to look at my  
hens in my back-garden, I am naturally nervous.  
You see, Mr. Stubbs knows poultry  
in and out, through and through, as becomes  
a man who has been gold medallist at a  
score of shows and gets record prices for  
settings of eggs.

"Getting many?" grunted Mr. Stubbs.

"A few," I said. "Nothing like the eggs  
you get, of course."

"What're you keeping hens for? Bit o'  
company or eggs?"

"Eggs, of course."

"You've got good birds there—that stands  
to reason, seeing you bought 'em from me.  
What are you feeding 'em?"

"It's a mixture I got in town."

"Good hens deserve the best food. Don't you talk  
to me about mixtures. I know more about getting  
eggs than here and there one. Give 'em Uveco Poultry  
Food—that's the stuff to give 'em. Costs less and  
goes further. Do you want to know how to make hens  
pay?"

"Of course, Mr. Stubbs."

"Give 'em nothing that goes to waste. Uveco  
Poultry Food's all clean, cooked and flaked. Every  
scrap of it goes to making eggs. You see, it's all the  
grain—nothing put to it or taken from it. You've no  
need to go buying a lot of other stuff. It's a perfect  
food in itself. Put the value into the hens and you'll  
get the eggs. Poor food means fewer eggs."

"Does it cost much, Mr. Stubbs?"

"Cost you nowt to try it. They'll send you a sample  
free, but you can buy a seven pound bag of Uveco  
Poultry Food for 1/6. Mind you, it'll pay you better  
to buy it in bulk like me—last lot I bought ran me into  
18/- cwt. delivered at the station. That's about the  
average price. You see, it gets a bit cheaper or a bit  
dearer according to whether you lives near or far from  
their mill s. You can get no food so cheap or so good.  
Just you try it and watch the difference in the laying  
if it don't pay you handsome, well, I know nothing  
about hens. Goodnight."

And Mr. Stubbs stumped off down to the  
"Red Lion."

## UECO CEREALS, Ltd.

60, Cunard Buildings, LIVERPOOL;

Bermondsey Wall, LONDON. S.E.16.

## You order to-day, WE DESPATCH TO-MORROW.

Foods exactly as fed to 3,000 Head of Stock  
on our own farm.

This is essentially a guarantee you get  
foods, proved by practical experience over  
many years.

	cwt.	s. d.
V.C. Chick Feed No. 1	25	0
V.C. Chick Feed No. 2	24	0
V.C. Rearing Meal	25	0
(Mix with 1-3rd Midds. and Bran)		
V.C. Laying Meal	22	6
(Mix with 1/2 Midds. and Bran)		
V.C. Laying Dry Mash	18	0

ALL CARRIAGE PAID.

## "V.C. NOSHELLAC" LIMESTONE GRIT.

(Now practically free from dust).  
Contains large proportions of essential  
phosphates necessary for welfare of both  
bird and egg.

ONCE TRIED. ALWAYS USED.

The Cheapest of all Grits and the Best.

(No oyster shell or flint required).

1 cwt. Bags	3s. 6d.
10 cwt. Bags	32s. 6d.
20 cwt. Bags	65s. 8d.
40 cwt. Bags	128s. 8d.

Free on Rail, Maidstone.

Ask your dealer to stock it.

## VENN CARR,

Dept. 9,

Maidstone Poultry Farm,  
MAILSTONE.

A Free Booklet, "How to Make Your Fowls  
Pay?" to each Customer, or 1s., post free.

## ROBERT MILLER, The Poultry House Specialist And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years

ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in  
design, quality and value. His thousands  
of customers proclaim them Best, Best,  
Best, every time.  
His Exchequer Leghorns are world-  
famous, as the Greatest Utility Breed  
extant.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER,**  
DENNY, SCOTLAND.

*See what the  
experts say!*

The  
**DRYSDALE**  
**MANUFACTURING CO., Ltd.**

*Offer Finest Foods at the Finest Prices:*

**MILK POWDER** (in 14-lb. packages) **45/-** per cwt.  
**WHITE FISH MEAL** ( " " ) **22/-** "  
**BONE MEAL** - ( " " ) **16/-** "

All Goods sold on Guaranteed Chemical  
Analysis, & Free English or Welsh Stations.

The  
**DRYSDALE**  
Manufacturing Co., Ltd.  
44, Hammermith Rd.,  
London, W.14.

"I have said nothing of the  
value of milk. For young chicks  
there is nothing of equal value—  
use Dried Separated Milk."—Tom  
Newman in "Eggs."

"As regards chicken rearing.  
I have always found Dried  
Separated Milk very successful."  
—Col. Hardy in "Eggs."

## Profit!

Profitable poultry keeping is impossible without good and cheap houses. The ideal house is light, dry, strong, durable, draught-proof, well ventilated, easily erected, and it must have sufficient head room. All these valuable points are embodied in the Slade Home Completed Poultry House, and, moreover, such is the system upon which the Slade House is manufactured, they can be embodied at a price which entirely takes the guess-work out of poultry keeping. If you want your poultry to pay, then eventually you must decide upon

## SLADE

### Home Completed Poultry Houses.

The Slade system of manufacture is, briefly, this. All work which can more economically be done by the purchaser is left for him to do. Even although he may employ high-priced local labour to erect the houses—it isn't necessary, anyone can do it—the removal of factory overhead charges saves money. The patent system of tying the corners, too, allows of much lighter timber's being used—another economy.

Slade Houses were designed, and are manufactured under the supervision of practical poultry-keepers of many years' profitable experience. They, therefore, contain points, the results of careful experiment, and the extensible system upon which they have been designed means a house which keeps pace, without any necessity for "scrapping" or rebuilding with the growing flock.

Write for our Fully Illustrated Catalogue of Poultry and Garden Appliances and of Wire Netting.

### The Slade Syndicate, Ltd.,

(Directors: E. J. W. and M. W. Slade),

28 WOBURN PLACE, LONDON, W.C.1.

## EDENMORE POULTRY FARM, HOOK, HANTS.

**WHITE WYANDOTTES,**  
Large Eggs, Large Birds, Splendid  
Records and Stamina.

### FOR SALE

Stock Birds, all with individual records, to make room  
for young stock.

Cockerels, by son of Cam's Supreme, and other first-class  
Pedigree stock.

### TABLE BIRDS, MILK FED.

The Young Stock has been entirely free this season from  
any form of diarrhoea, or any other disease.

Casualties from all causes under 8 per cent., including  
weaklings from incubators.

For Particulars and Prices, apply to—

**Brig.-General MACONCHY,**  
**EDENMORE, HOOK, HANTS.**

## Court Hey Poultry Farm, BROAD GREEN, LIVERPOOL.

### FIRST ANNUAL SALE OF PEDIGREE BRED STOCK.

We offer Exceptional Value in White Leghorns and White  
Wyandottes, to make room for young stock.

600 x 1920 White Leghorns, every bird sired by cockerels  
from guaranteed trap-nest record hens, records to 300. These  
hens are the absolute cream of 1,500 bred by us, and reared  
on our own farm in 1920.

Selected for vitality, type and exceptional capacity. Just  
right for foundation stock, from which to build up a  
profitable poultry farm.

Price: 6/6 each, 12 for £3/15/6, reduction for large number.

Extra Special Breeding Pens of 6 or 12 hens, mated with  
March hatched cockerel, from guaranteed dam, with record  
over 200. Price: 52/6 for 6, and 94/6 for 12, with Cockerel.

A Few Grand Pens of L.2 White Wyandottes, records given,  
all bred from generations of trap-nested stock, 6 or 12 hens  
mated with early cockerels, from guaranteed dams, records  
over 200. Price: 55/- for 6, 100/- for 12, and Cockerel.

Remember you are buying stock from reliable people, bred  
and reared by us, and used as breeding stock on our own  
farm. All hens in the pink of condition, and still in full  
lay.

Sent on approval and Carriage paid on six and upwards.

Orders to J. BARGH, S.P.B.A., Manager.

Proprietors: Messrs. J. BIBBY & SONS, Ltd.

## Come to "Heaselands" and see how it is done.

**I**F you are interested in Poultry I want you to come to "Heaselands." Whether you are a novice or a professional Breeder, I want you to come, whether you buy, have bought, or may (at some future time) buy; I offer you a cordial invitation to visit my Farm and see just how my birds are bred and reared. I know you will find plenty to interest you—you may learn a good deal. You can consider "Heaselands" as a "permanent free exhibition"; because you will be welcome at any season. "Heaselands" is easy to reach. Splendid service from London in one direction, or Brighton in the other. I will send a car to meet you if I know your train.

**F. Boslock Smith**  
Pedigree Utility Poultry

"Heaselands," Hayward's Heath, Sussex.

Write for my Free Booklet "Profitable Poultry"

## "THEY MUST GO."

To make room for 800 1922 White Leghorn pullets the following stock must go at ridiculously low prices. **Note!** No disease past or present, satisfaction guaranteed, all carriage paid, approval deposit. inspection invited.

**350** March, 1921 White Wyandotte pullets, Tom Barron x Abel Latham, 1st grade egg birds, with type and size, not yet bred from. **Price, 7s. each.**

**100** April, 1920, White Leghorn hens, pure Padmans, pullet flock average 195, 50 of these actual daughters Pen 53 Silver Medal Winners, Harper-Adams, 1916-17, 2½ oz. egg hens, proved breeders, free from B.W.D. **Price, 6s. each.**

**120** April, 1921, White Leghorn pullets, Padman x Joe Edmondson, flock of 320 did 66—70 per cent. throughout the winter, 1st grade egg birds, not yet bred from. **Price, 9s. each.**

**4** March, 1921, White Leghorn cocks, pure Padmans, Dams record 226 10 months, Harper-Adams, 1917-18. Sire's dam 254. **Price, 12s. 6d. each.**

**4** March, 1921, White Leghorn cocks, direct from Warwick Rogers, at 42s. each, strongly infused "Winter King" blood. **Price, 18s. each.**

**40** April, 1921, White Runner ducks, Taylor's strain, prolific layers, with type. **Price, 6s. 6d. each.**

**JACK UNDERWOOD, S.P.B.A.,**  
The Reliable Poultry Farm,  
**SUTTON BONINGTON, LOUGHBOROUGH.**



## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).

**DRIED BUTTERMILK - 20/- per cwt.**

We are also able to offer a limited quantity of

### SWEETENED CONDENSED MILK

(Invaluable for Poultry, Pigs, Calves, etc.) at the low price of

**8/- per Case (48 fourteen oz. tins in a case).**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATOLIFFE, LONDON, E.1.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
Near SOUTHWELL, NOTTS.,  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
various ages in White Leghorns, White  
Orpingtons, White Wyandottes, Light  
Sussex, Anconas (s.c.), R.I.R. (s.c.)

Inspection Invited. Cash or Deposit.



The  
**S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

## W. A. BAINBRIDGE,

**Keyneston Manor Poultry Farm,  
BLANDFORD.**

White Wyandottes. Rhode Island Reds (S.c.)  
Light Sussex.

Sittings of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
from large egg, high record L2 Hens.



## Biscuit Meal— plays a big part in the Feeding Menus of England's Most Successful Poultry Farmers.

Mr. R. H. BERNEY, M.A.,  
of Harpenden, writes:—"Your  
Biscuit Meal forms the basis  
of all mashes from the first to  
the last day in the lives of my  
birds. Diarrhoea is almost un-  
known here. I cannot imagine  
a lower mortality or more  
vigorous chicks than at this  
farm."

Mr. SIMON HUNTER says:—"In all my  
forty years at chicken rearing I have not  
found anything that can take the place of  
Biscuit Meal for rearing strong, vigorous  
chicks."

## SPRATT'S Poultry Meal

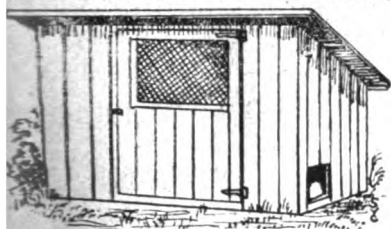
And SPRATT'S CHICKEN (BISCUIT) MEAL  
are obtainable from all dealers in sealed  
bags.

**SPRATT'S PATENT Limited,**  
24, Fenchurch Street, E.C.3.

# **SPECIAL ANNOUNCEMENT!**

At the suggestion of Mr. E. Bostock  
th. who has favoured us with several  
ers. we have decided to place before the  
ers of "Eggs" our many and popular  
s of Poultry Houses, Appliances, Sheds,  
Portable Buildings, also Wire Netting,  
ber, etc.

Weekly Advertisements will be worth Watching.  
Special Lines for this Week are the following—



**THE "VALUE" COCKEREL BOX.**  
5in. long, 2ft. 4in. wide, 2ft. 6in. high  
roughly made of **BEST QUALITY** 3in.  
atching, on strong framing, in complete  
ctions. Hinged Door, Wired Window,  
iding Trap Door, complete with Bolts and  
Screws for erecting.  
rice, 21/6. Carriage Paid to your Station.  
most useful Small House for All-the-  
ear-Round use. For rearing a brood of  
icks or Ducklings. For a Cockerel Box  
or one or two birds in the autumn, or for  
pen of Bantams. It cannot be excelled  
the price. Being Portable, it is easily  
moved.

reosote, Best Quality Nut Brown, 55/- per  
40 Gall Cask.  
Lesto Wood Preservative, Nothing  
etter. 40/- per 40 Gall Cask. Free on Rail  
Redhill.

Write now for our Catalogue.

**THE SURREY VALUE CO.,**  
ARLANDS ROAD, REDHILL. 'Phone 290.

## **The House for QUALITY**

Buying your foods from the house  
where **QUALITY** is a first concern, is  
THE ONE WAY to secure the results  
you desire.

## **S. S. Chick Feed**

—the **Smart Dry Feed** obtainable—fur-  
nishes a special example of the won-  
derful results obtainable from  
**QUALITY FOOD**. Made to the Formula  
of the Rev. Seymour Shaw, it is a food  
of the highest nutritive value, pro-  
ducing **CONSISTENT GOOD RESULTS**.

**ANALYSIS:**  
**FOOD UNITS: 100.**  
**NUTRITIVE RATIO: 1 to 7.**  
**FIBRE ONLY: 1/4 per cent.**

**Price 21/- per cwt.**

Carriage Paid to Station, and Backs Free.

Make it a point to test this **QUALITY**  
Feed to-day. Order a sample bag  
through  
Secretary, S.F.E.A., and get your  
discount.

**THE SERVICE FOOD COMPANY,**

*The House for Quality.*

**VICTORIA MILLS, GRIMSBY.**

# **GOOD HEALTH**

WITH YOUR VALUABLE STOCK IS

## **ASSURED**

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## **"FIBRENT"**

**ASBESTOS-CEMENT**

For your Poultry Houses, Laying Sheds, etc. **VERMIN PROOF. ROT PROOF.**

**Corrugated**



**Roof Sheets.**

**Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed**  
**PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.**

In writing, please state for what purpose required.

**The British Fibrocement Works, Ltd.**

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

London Office: Central House, Kingsway,  
Telephone: GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.  
Telephone: CENTRAL 7292.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.

Telephone: BRISTOL 272.

Also at Glasgow, Swansea, Dublin and Belfast.

### **Wye College Four Months' Winter Test.**

The Third Annual Test will be held at  
Wye College, commencing October 1st next.

Open only to Kent, Surrey and Sussex  
Poultry Keepers who have not previously  
won a first prize in any recognised laying  
trial.

Entry Fee, 25/-. Entries close August 20th.

Particulars and Forms from

H. HOWES.

THE COLLEGE, WYE, KENT.

**PURE SWEET STERILISED BLOOD.**

**RENTOX (Regd).**

7 lb. bag sent post free for 1s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,**  
**MORDESLAY STREET,**  
**BIRMINGHAM.**

## **PLANOK TRAPNESTS**

*The simplest and cheapest on  
the Market.*

Made in sets of two, comprising two  
complete nest boxes and trap fronts.

**10/6** per sample set, carr. paid.

**7/6** per 3 sets and more, carr. fwd.

**7/0** per 25 sets and more, carr. fwd.

These nests also supplied "knocked  
down" or in the flat.

**Every Fitting Provided.**

Multiples of 10 sets only.

**10** sets and more, **6/0** per set, carr. fwd.

**20** " " **5/6** " "

**30** " " **5/0** " "

**FULLER PARTICULARS ON APPLICATION.**

## **EGG BOXES**

**SPECIAL LINE.**

*Limited number only.*

To hold 24 doz. Wood-wool  
between layers.  
or 30 doz. Cardboard  
between layers.

These are strong boxes, varnished and  
iron-strapped. The lid is strongly hinged.  
Fitted with cardboard partitions.

**PRICES:**

**SINGLE BOX, 10/0** **CARR. FWD.**

**6 OR MORE, 9/- EACH** " "

**12 " " 8/-** " "

**TRADE SUPPLIED.**

**WORSSAM & ABBOTT,**  
**PYRCROFT HOUSE, CHERTSEY.**

The **WORLD'S RECORD WYANDOTTE** (Midland Test, 1920-1921)  
was reared on

## H. A. HUSSEY'S SUPER CHICK FOODS.

Mr. H. W. Honey, Alton, Hants (Breeder and Owner of Score-card Marvel, the remarkable White Wyandotte pullet, which laid 315 eggs in 11 months, thus putting up a World's Record for W. Wyandottes and a British Record for all breeds), writes:—  
"I consider that good feeding is essential for successful chicken-rearing, and always use the best procurable. . . . All my birds are brought to Maturity on your foods, etc. . . ."

H. A. Hussey's Super Chick Foods are made to a high standard of QUALITY. They contain just those ingredients which have PROVED THE BEST by long experience and tests. These Foods will enable YOU to rear all reearable chicks to robust maturity

H. A. HUSSEY'S EGG PRODUCERS.			
	wt.	1-cwt.	s. d.
H.A.H. Super Chick Food...	27	0	14 6
No. 2 (for one month old)...	23	0	12 6
Large Chick Food .....	23	0	12 6
Chick - Rearing Meal "A" (first month) .....	25	0	13 0
Chick - Rearing Meal "B" .....	25	0	13 6
Chick Dry Mash .....	25	0	13 6
Record Laying Meal (for use with 50 per cent. Midds. and Bran) ...	24	0	
H.A.H. Complete Mash .....	24	0	
Dry Mash (T. Newman's Formula) ..	18	0	
Special Poultry Grain (Machine Cleaned) .....	21	0	
No. 2 Poultry Grain (Machine Cleaned) .....	16	0	

Carriage paid England and Wales. Sacks Free. Prompt dispatch. Samples, 2d. Stamp. 1s. less 5 cwt. lots. Cash with order or deposit system. Special Quotations for Maize Germ Meal, Maize Gluten Meal, Oatmeal, etc., etc., on application, stating quantity required.

**HUSSEY BROS., Dept. E** (H. A. HUSSEY, S.P.B.A., F.N.U.P.S.)  
515, Seven Sisters Road, TOTTENHAM, LONDON, N.

## G. A. TOMLINSON,

Clayton Poultry Farm,  
NEWCASTLE, STAFFS.

Specialist Breeder of **BLACK LEGHORNS, WHITE LEGHORNS, and WHITE WYANDOTTES.** Flocks of **FAWN AND WHITE INDIAN RUNNER** and **KHAKI-CAMPBELL DUCKS** also kept.

**BLACK LEGHORNS. NATIONAL TEST** for the last two months have headed the monthly report in Section 6.

Stock Birds for Autumn Delivery now being booked.

Satisfaction Guaranteed on the "Money-Back" Basis.

**BREEDER AND EXHIBITOR OF PEDIGREE LARGE BLACK PIGS.**

Our SPECIALITY is the making of **DRY MASHES, CHICK and POULTRY FEEDS** to Customers' own requirements. We also make with the best ingredients.

Newman's Chicks Mash: 13s. 6d. cwt.  
Newman's Chick Feed: 19s. 6d. cwt.  
Newman's Poultry Mash: 15s. 6d. cwt.

We supply everything required for the Poultry Keeper. For example: Midds., 11s. cwt.; Broad Bran, 12s. 6d.; Ordinary Bran, 10s. 6d. etc.

Before purchasing elsewhere mail your requirements to enable us to quote and send Samples.

Bags Free and Free on Rail. Cash with order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,

PUBLIC HALL, "HADLEIGH," EBBW.

## RATSTICKER DESTROYS RATS QUICKLY.

The non-poisonous varnish which causes natural death within a few minutes. Safe, certain, and continuous trap, recommended by Dr. Howarth, City of London Medical Officer.

Sole Manufacturers:  
**B. WINSTONE & SONS, LTD.**  
(Dept. W),  
100-101, Shoe Lane, London.  
E.C.4.  
Obtainable from all Chemists.



Full Instructions  
with each Tin.

Small for Mice,  
per 1/4 tin.

Medium for Rats,  
per 2/3 tin.

Extra Large for  
Rats,  
per 3/3 tin.

Post Free.

## DRY MASH, For Egg Production.

16.6 cwt. Carr. Paid

**CHICK MASH**  
Frame

Builder.

18.6 cwt.

Carr. Paid.

**FAM**

Phone 130

Fish Meal.

Meat Meal.

Biscuit Meal.

Palm Kernel

Meal.

Rice Meal.

Maize Meal.

Maize Germ.

Sussex

Ground Oats.

Flaked Maize

N'bled Maize

Soya Bean

Meal.

English do.

**CLOFALFA MEAL.**

From Genuine  
Alfalfa  
and Clover.

15/- 100 lbs.

Carr. Paid.

P'try Wheal.

Poultry Oats.

Dried Yeast

Dried Butternut

Milk.

Dried Full

Milk.

Grit & Sand

## PHILIP CHURCH & SONS

SWAN WHARF,

**BISHOP'S STORTFORD.**

DISCOUNT TO MEMBERS S.P.B.A.

## TWO SPECIAL LINES.

MAIZE GERM MEAL ... £9 per ton.  
FLAKED MAIZE ... £11 per ton.  
Bags Free. F.O.E. Bristol. Cash with order.

And these other Goods, as you all know, are unbeatable for Price AND Quality.

	per cwt.
Kibbled Maize	11 6
Wheat	12 0
Clipped and Screened Oats	14 0
Barley Meal	12 0
Maize Meal	10 0
Sharps (Splendid Quality)	9 6
Broad Bran	12 0
Middlings	12 0
Bean Meal	14 0
Maize Germ Meal	12 0
Maize Gluten Feed	12 0
Poultry Mash (Newman)	15 0
Chick Mash (with Bran)	14 0
Chick Mash (without Bran)	13 0
Flaked Maize	14 0
Biscuit Meal (Graded)	14 0
Biscuit Powder	14 0
Oyster Shell	1 0
Limestone Grit	1 0
Bags free, F.O.E.	

Also Clover Meal, Fish or Meat Meal, "Bycolla," Maize Flour, Duck Meal, Dried Yeast, Peat Moss, Charcoal, Izal Powder and Fluid, Wire Netting, Felts, Draining and Feeding Troughs, etc.

Write or Phone. Phone 51.

PLEASE NOTE.—We give a discount of 1/- per cwt. on ton lots, mixed or otherwise, and 6d. per cwt. discount on all orders received through the S.P.B.A. Our Limestone Grit is now practically free from dust.

**FRANK SHEARN & CO., LTD.**  
MIDSOMER, NORTON, SOM.



July 28th, 1922.

## EGGS.

# E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS (s.c.)**  
**WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Bacillary White Diarrhoea.

All-young stock reared on Free Range. 60 Acres Grass and Woodland.

SPECIAL QUOTATIONS FOR COCKERELS.

**3 MONTHS-OLD PULLETS, from 10/6 each.**

## 'UTILITY' POULTRY FOODS.

PRICES (Reg. Trade Mark) DOWNS

### Special Offers to S.P.B.A.

	per cwt. s. d.
200 bags Maize Gluten Meal	12 0
300 bags Fine Quality Fish Meal	15 0
200 bags Fine Ground Biscuit Meal	16 0
400 bags Best Sussex Ground Oats	15 0
1000 bags White Dair Seed	11 0
200 bags Best Mixed Fowl Corn	12 0
200 bags Chicken Mixture	13 0
50 bags Granulated Charcoal	14 0
200 bags Canary Seed	18 0
100 bags Poultry or Chicken Rice	15 0
500 bags Clipped Heavy White Oats	12 0
500 bags American Red Wheat	14 0
500 bags Broken Wheat and Cockle Seed	10 0

F.O.B. Liverpool. Bags in. Cash Terms.

ARGYLE MILLS, Argyle Street, Liverpool.

'Phone: 2586 Royal. Telegrams, "Emphatic."  
Established 1868.

## Eggs Insured

in the  
"Pocock"  
Patent and  
"Cushion"  
Patent

Egg Boxes



Insurance Policy with every Box.

Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

## TIMBER—What about it. Great Reductions.

(We Pay Carriage.)

Compare our prices with others. We can supply well-seasoned NEW Timber for the following rates:—

1in. x 4in. T.G.B.	8s. 3d.	1in. x 5in. Sawn Bds.	12s. 6d.	2in. x 2in. Battens	9s. 9d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 2in. Battens	3s. 6d.	2in. x 4in. Battens	18s. 0d.
1in. x 5in. T.G.B.	10s. 0d.	2in. x 1in. Battens	5s. 6d.	3in. x 3in. Battens	22s. 0d.
1in. x 5in. T.G.B.	12s. 0d.	2in. x 1in. Battens	7s. 3d.	3in. x 4in. Battens	30s. 0d.
1in. x 5in. T. & G.	15s. 0d.	3in. x 1in. Battens	7s. 3d.	3in. x 5in. Battens	44s. 0d.
1in. x 4in. W'th'b'ds.	5s. 0d.	3in. x 2in. Battens	14s. 9d.	2in. x 2in. W'th'b'ds	9s. 0d.
1in. x 5in. Sawn Bds.	7s. 6d.	3in. x 1in. Battens	11s. 6d.		
1in. x 5in. Do.	9s. 6d.				
2in. x 2in. Pitch Pine Posts	12s. 0d.	2in. x 3in. Pitch Pine Posts	18s. 0d.		

per 100 running feet. Carriage Paid to nearest Goods Station. Cut to lengths or multiples. Cash with order. Special Terms for large quantities. When ordering please state nearest Railway Goods Station. Having now installed a new plant we can give delivery at once. We also supply Roofing Felt. Other sizes quoted for on application.

**RUSH & PARK,**

Dept. F, Timber Merchants, Claremont Road  
Sawmills, Seaforth, Liverpool. Tel.: 624 Waterloo.

## "EGGS"

can now be obtained from all Newsagents, and we suggest that anyone, who is not already a subscriber, requiring copies regularly, should fill up the following form and hand it to their Newsagent:—

To M.....

Please supply me with a copy of "Eggs" every week until this order is countermanded.

Name.....

Address.....

## NOTICE TO NEWSAGENTS.

If any difficulty is experienced in obtaining "EGGS," please write to the Editor, The Beeches, Rudgwick, Sussex, giving the name of your Wholesaler. Postage will be refunded and arrangements made for you to be supplied.

Copies can always be obtained from the following Wholesale Newsagents:—

Messrs. W. H. SMITH and SONS, Strand House, Portugal Street, W.C.2. Messrs. JOHN MENZIES and CO., LTD., Wholesale Agents, Glasgow.

Messrs. JOHN HEYWOOD, LTD., Wholesale Newsagents, Deansgate, Manchester, and St. Bride Street, London, E.C.

Messrs. HORACE MARSHALL and SON, Temple House, Temple Avenue, London, E.C.4.



## AMERICAN OYSTER SHELL, Special offer.

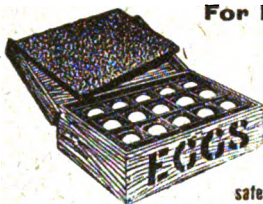
1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 6/3. Free on Rails, Liverpool.  
Cash with order.

THE BRITISH AMERICAN SHELL GRIT CO.,  
Bank Chambers,  
282, MARSH LANE, BOOTLE, LIVERPOOL.

'Phone/ 696 Bootle.  
Telegrams: Poultry, Liverpool.

## UP-TO-DATE BOXES (WOOD),



For EGGS &  
CHICKS

Carry Millions  
of  
EGGS  
and  
CHICKS  
safely every season.

If you wish to eliminate your losses caused by faulty boxes, do not fail to give our boxes a trial.  
Illustrated List Free. Prices as cheap as cardboard boxes.  
Special Discount to S.P.B.A. Members.  
W. and T. MARKHAM (Dept. A.),  
QUENIBOROUGH, LEICS.

## DR. J. H. BALDWIN, SPRINGFIELD P.F. WIMBORNE, DORSET.

ONLY THE VERY FINEST STOCK in  
White Leghorns,  
White Wyandottes,  
R. I. Reds (s.c.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.

If you get them from "Hometlast" it means SATISFACTION.

ANCONAS, LIGHT SUSSEX,  
and The Adjustable Trap-Nest Front  
(Prov. Pat.) Sample, 3/6.

VICTOR P. WILLIAMS,  
Hometlast Poultry Farm, BEXHILL, SUSSEX.

Oyster Shell, English or American Graded - 7/-  
Kent Blue Sharp Flint - 3/6  
Free on Rail; Reduction 1 ton and up  
Send 2 stamps for samples.

F. G. BRANTON, Grit Manufacturer  
GREENHITHE, KENT.

ALL your Poultry want is here—  
in the natural ingredients of

## PULBIS Poultry Food

a complete food, as vital to the health and growth of your poultry as natural foods are to man.

### PULBIS POULTRY FOOD

IS GUARANTEED TO BE UNADULTERATED by any injurious spice or condiment which form the most part of many so-called laying meals. PULBIS contains no superfluous ingredient added merely to make bulk, and there is no dust or waste.

EVERY GRAIN of PULBIS  
IS PURE FOOD!

From all Corn Merchants, etc. Sold in  
two sizes, suitable for chicks or adult birds:

and in  
larger or  
smaller  
quantities.

3½ lb. Bag 1/-

7 lb. Bag 2/-

use the  
Coupon  
for free  
Sample.

Made by the Manufacturers of the Perfect Dog Foods  
MELOX and MELOX MARVELS.

### THE POULTRY RUN



AFTER

PULBIS

## A Free Sample awaits you.

W. G. CLARKE & SONS, Ltd.,  
Limehouse, London, E.

Please send me, post free, Sample  
of PULBIS POULTRY FOOD and  
also your book on "Poultry Culture"

Name

Address

Dealer's Name

Address

Post the Coupon to-day.

Open envelope, 3d. Stamp.



Wednesday, August 2nd, 1922.



# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 5. Copyright.

Edited by TOM NEWMAN.

PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3



## No. 2 FOUNTAIN.

A Protective Design, which keeps the water pure.

Price:

No. 1. 1-gall. size.  
2/9 each, 3 for 7/9,  
6 for 14/3, 12 for 27/-  
No. 2. 1-gall. size.  
3/3 each, 3 for 9/3,  
6 for 17/6, 12 for 34/-  
No. 3. 2-gall. size.  
4/9 each, 3 for 14/-,  
6 for 23/-, 12 for 54/-  
Carriage Paid Passenger Train.  
Prompt Despatch.

## "The Pearl"

Grit or Shell Hopper  
13in. deep, 5in. wide,  
6in. long.

Price: 4/6 each, 3  
for 13/-, 6 for 25/-, 12  
for 48/6.

Carriage paid Passenger Train.  
Prompt Despatch.



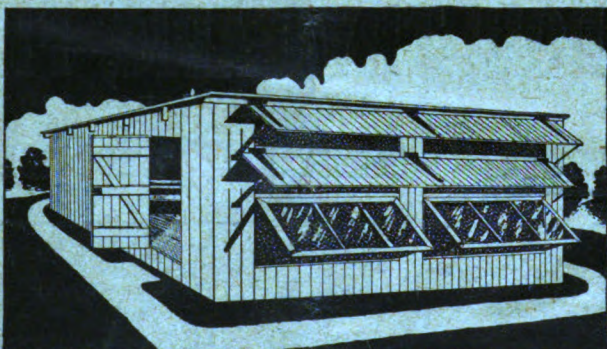
# The REDUCTION in PRICES at HEBDITCH'S

PROVIDES FOR YOU A SPLENDID OPPORTUNITY  
WHICH YOU OUGHT NOT TO MISS.

## THE "MARTOCK" INTENSIVE HOUSE.

The House which is used by the Most Successful Intensivists.

No.	Long	Width	Height at back	Height at front
1	6	10	5	6 1/2
2	10	10	5	6 1/2
3	10	16	4 1/2	7
4	20	16	4 1/2	7
5	30	16	4 1/2	7
6	40	16	4 1/2	7
7	50	16	4 1/2	7
8	60	16	4 1/2	7
9	70	16	4 1/2	7
10	80	16	4 1/2	7
11	100	16	4 1/2	7
12	120	16	4 1/2	7



The "MARTOCK" is built on an extra strong frame. The walls and roof are of 3in. best Swedish deal boards, which are tongued, grooved, and V-jointed. The floor is on very strong pickled joists. Roof covered with good wearing felt, well-battened down. Movable perches, wide dropping-board, nest-boxes, adjustable windows, and ventilating shutters. The house is built in sections, and so sent out, with all the necessary bolts for erecting. Carriage paid in England and Wales. Prompt Despatch. If pickled by Preserolium the cost is 1s. 6d. in the £ extra.

## Prices.

	£	s.	d.	£	s.	d.
Floors extra.	1.	13	11	3	1	0
	2.	18	14	0	4	10
	3.	24	17	0	7	18
	4.	41	6	15	0	0
	5.	60	14	0	21	9
	6.	83	15	0	27	18
	7.	101	2	0	34	8
	8.	120	9	0	40	17
	9.	139	10	0	47	6
	10.	158	18	0	53	15
	11.	198	19	0	66	14
	12.	235	16	0	79	12

## Best British Galvanised Wire Netting.

Per roll of 50 yards.

MESH	1 ft.	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
wide	wide	wide	wide	wide	wide	wide
3 in.	4/-	7/2	9/10	13/2	16/5	19/8
2 in.	5/6	10/-	13/7	18/1	22/7	27/1
1 in.	9/-	16/4	23/2	30/11	38/7	46/4

Other sizes quoted for. Consignments of £6 5s. value and upwards carriage paid in England and Wales. Prompt Despatch.  
Don't buy Continental Rubbish.

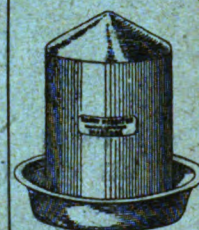
Catalogue  
of  
Poultry  
Keepers'  
Requisites  
Post  
Free.

## Galvanised Corrugated Iron Sheets.

Length.	5ft.	6ft.	7ft.	8ft.	9ft.	10ft.
1st Quality	2/4	2/9	3/1	3/6	4/-	4/6
2nd Quality	1/7	1/10	2/1	2/4	2/7	2/10

2ft. 2 1/2in. wide.  
Carriage forward. Prompt Despatch.

SANDED ROOFING FELT, in rolls 15 yards long, 1 yard wide, 5s. 3d. per roll. 20 rolls and upwards carriage paid. "Pluvex" Felt, in rolls 12 yards long, by 1 yd. wide, 8s. per roll. Carr. forward. 2 Rolls and over, carr. forwards. Starex Felt, 10s. roll. Carr. forward. "Lentherite" Felt, in rolls 15 yards by 1 yard, 14s. per roll. Carr. forward. Prompt Despatch.



## No. 3 FOUNTAIN.

Made in two parts and easily cleaned.

No. 1 size, 1-gall.  
2/9 each, 3 for 7/9,  
6 for 14/3, 12 for 27/-  
No. 2 size, 1-gall.,  
3/3 each, 3 for 9/3,  
6 for 17/6, 12 for 34/-  
No. 3 size, 2-gall.,  
4/9 each, 3 for 14/-,  
6 for 23/-, 12 for 54/-

Prompt Despatch.

Carr. Paid.  
Pass. Train.

## The "DELTA"

Non-Clog Dry Mash

Rat-Proof Hopper.

No. 1 is 18in. x 8in.

No. 2 is 18in. x 12in.

No. 3 is 18in. x 18in.

Prices:

No. 1. 8/- each, 3

for 23/-, 6 for 44/-

No. 2. 10/6 each, 3

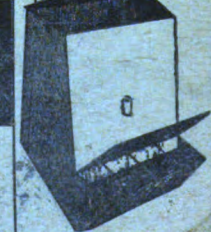
for 30/-, 6 for 58/-

No. 3. 13/3 each, 3

for 38/-, 6 for 72/-

Carriage Paid Passenger Train.

Prompt Despatch.





# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

## Can Any Firm wish for Better Testimony?

Letter No. 62.

Margarita,  
Moor Green.  
Cowes, Lo.W.  
13th July, 1922.  
Yours faithfully,  
H. BEVIS.

Dear Mr. Priest,—

I am pleased to say the birds I bought from you last August have done remarkably well and are still laying.

Letter No. 63.

The Bungalow,  
Paynters Lane End,  
Illogan, Cornwall.  
13th July, 1922.  
Yours faithfully,  
M. SKINNER.

Dear Sirs,—

I am highly pleased with the hens I had from you, and hope you will be able to send me a cockerel as free from the broody strain as they are.

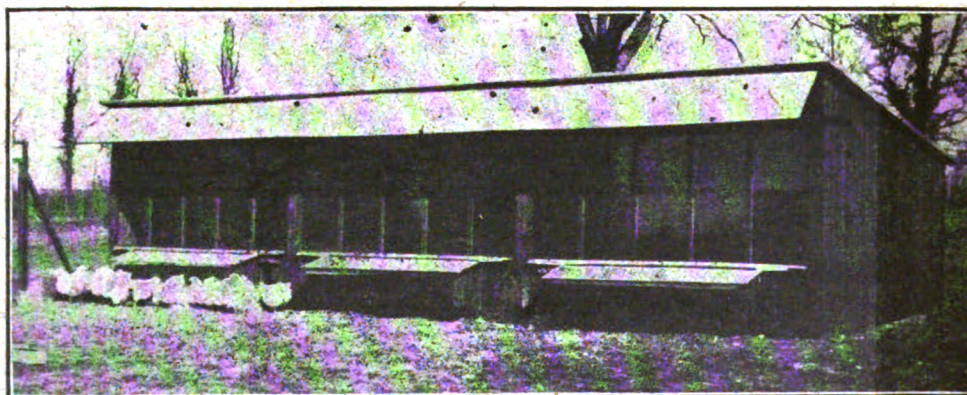
Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

## PONDTAIL POULTRY FARM, Fleet, HANTS.

Proprietor: J. V. MILNER-LENNARD, M.S.P.B.A.

### THE "PONDTAIL" SEMI-INTENSIVE HOUSE.



3in. T. and G. matching on 2in. x 3in. and 2in. x 4in. framing. Made in 10ft. sections.

No.	Length.	Front.	Back.	PRICE.	Floor	Extra.	£s.
No. 1.	10ft.	12ft.	8ft.	5½ft.	£15.		25.
No. 2.	20ft.	12ft.	8ft.	5½ft.	£27.		25.
No. 3.	30ft.	12ft.	8ft.	5½ft.	£30.		211.
No. 4.	40ft.	12ft.	8ft.	5½ft.	£51.		214.

August 2nd, 1922.

**BEGGS.**

**BLACK, also WHITE LEGHORNS,**  
6-to-the-lb. Egg Strain.

○○○  
To clear House  
for Pullets

**5/- EACH.**

○○○



Will be accepted for 500 Genuine 1921 Hens  
that laid 2,522 eggs last week (October to  
December Records over 40).  
Six and Cockerel, 35/-, carriage paid.  
April 1922 Pullets, from 10/6.

Dept. C, **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

**Bred-to-Lay Strains**

OF

**W. WYANDOTTES,**

(BARRON.)

**W. LEGHORNS,**

(PADMAN.)

**Stock Cockerels and Breeding Hens**

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**

**NETHERBY HALL, SEDGLEY;  
STAFFS.**

**GRANULATED  
MOSS LITTER**

For POULTRY HOUSES.

1 2-Bushel Bag containing  
about 20lb., 3s. 6d.; 2, 5s. 6d.  
3, 8s. 6d.; 5, 13s. 2 owt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

82, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**TIMBER—What about it. Great Reductions.**

(We Pay Carriage.)

Compare our prices with others. We can supply well-seasoned NEW Timber for the following rates:—

Min. x 4 1/2 in. T.G.B. 3s. 3d.	1 1/2 in. x 5 in. Sawn Bds. 12s. 6d.	2 in. x 2 in. Battens 9s. 6d.
Min. x 4 1/2 in. T.G.B. 3s. 6d.	1 1/2 in. x 2 in. Battens 3s. 6d.	2 in. x 4 in. Battens 13s. 6d.
Min. x 5 in. T.G.B. 4s. 6d.	2 in. x 1 in. Battens 5s. 6d.	3 in. x 3 in. Battens 22s. 6d.
Min. x 5 1/2 in. T.G.B. 12s. 6d.	2 in. x 1 1/2 in. Battens 7s. 3d.	3 in. x 4 in. Battens 38s. 6d.
1 in. x 5 1/2 in. T. & G. 15s. 6d.	3 in. x 1 in. Battens 7s. 3d.	3 in. x 6 in. Battens 44s. 6d.
3 in. x 4 in. W'th'b'ds. 5s. 6d.	3 in. x 2 in. Battens 14s. 6d.	3 in. x 6 in. W'th'b'ds 9s. 6d.
3 in. x 5 in. Sawn Bds. 7s. 6d.	3 in. x 1 1/2 in. Battens 11s. 6d.	2 in. x 2 1/2 in. Battens 12s. 6d.
3 in. x 5 in. Do. 9s. 6d.	2 in. x 2 in. Pitch Pine Posts, 12s. 6d.	2 in. x 3 in. Pitch Pine Posts, 18s. 6d.

per 100 running feet. Carriage Paid to nearest Goods Station. Out to lengths or multiples. Cash with order. Special Terms for large quantities. When ordering please state nearest Railway Goods Station. Having now installed a new plant we can give delivery at once. We also supply Roofing Felt. Other sizes quoted for on application.

**RUSH & PARK,**

Dept. F, Timber Merchants, Claremont Road  
Sawmills, Scaforth, Liverpool. Tel.: 624 Waterloo

Early-hatched s.c. R.I.R. Cockerels and  
Pullets from my Registered Pens (headed by  
sons of Mr. E. C. B. Boucher's World Record  
Hen No. 37, which recorded 1,045 Eggs in  
Four Years), and from other very special  
Matings of Exhibition and Utility Type.

White, Fawn & White, and Khaki-Camp-  
bell Ducks of my own strains and the Finest  
National Bentley Laying Test Blood, and a  
few Special Fawn & White Drakes from Dams  
which have recorded up to 360 Eggs in the  
year. Also a few special Mated Pens.

**A. HAROLD PAINE,**

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry  
Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

**The Chalet, Burgess Hill, Sussex.**

**SPECIAL LIME STONE GRIT.**  
NONE GENUINE WITHOUT THIS  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.)

3s. 6d. per owt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Methrick," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It"



## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.80	Calcium Sulphate	...	traces only
Silica	...	8.08	Moisture, organic matter, etc.	...	8.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.66			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

JUST THE BOOK FOR YOU.

### "THE SCIENCE OF POULTRY FEEDING,"

By Ernest Evans.

Tells you how to arrange rations for all purposes, and the use of Vitamines.

Price: 2/3, post free, from  
THE AUTHOR,  
21, RYDAL STREET, BURNLEY.

## LONGLAYER DUCKS

Lead all Breeds at National Test, Bentley, where my No. 60 broke records with

**201 EGGS in 201 DAYS.**

Drakes related to above,  
from 20/- List Free.

## Capt. R. A. LONG

S.ondon Manor, SHEFFORD, BEDS.



THE GREEN-CLOVER MEAL PEOPLE.

## STEYNE FOODS

### FOR STAMINA

Motor Deliveries in Mid. and West Sussex.

**The STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

#### BUY DIRECT FROM THE MILLER.

Laying Meal (111 Food Units), contains no condiments or spices. A simple and wholesome meal specially prepared for egg production.  
21s. per cwt., or 11s. 6d. per 56 lbs.  
Carriage paid England and Wales.  
Cash with order. Bags free.

J. P. POWELL, Much Cowarne Mills,  
Nr. BROMYARD.

## W. J. HEPPELL—Appliance Poultry Farm—TANTOBIE,

Co. Durham. One of the few Poultry Farms in this Country



with its own Sheet Metal Workshop. Better Working Conditions. Better Work and Lower Prices.

Our Wasteless Hopper is in extensive use—from Devon to Aberdeen. It is efficient. It cannot choke. If you do not approve of this design, we make others, but recommend the Wasteless Hopper as the best, and the cheapest too! Order one now and try it. Return it if unsatisfactory.

Discount of 5 per cent. through the S.P.B.A.

Length.	14in.	21in.	28in.	35in.	WATER FOUNTAINS, GRIT HOPPERS,
Each	...	7/9	10/0	12/6	and Sundries. Poultry Houses, Large or
3	...	22/6	28/6	35/6	Small. Dry Laying Mash, 16/6 cwt. Feed-
6	...	41/6	52/6	67/6	ing Stuffs.

Poultry Farms Planned and equipped.

Illustrated Lists Post Free.

#### A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has done more to make them so than

## Tom Barron's

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a cheap proposition for those who have room to keep them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets.

Profusely Illustrated Catalogue and List sent on request. Postage 1d.

OF PROGRESS.

## "Poultry Foods and Feeding,"

ALSO

### "Chicken Rearing,"

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6½d. Each,  
Post Free.

## "An Egg in Every Ounce."

## CLOVER MEAL

FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots

Carriage Paid in England.

## ROSSLYN & Co.,

38, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, August 2nd, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months; 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

the National Poultry Institute and Research stations will be forthcoming, at present there seems grave danger that it will not be, we feel that if all poultry keepers realised how much our future prospects depend upon Research work, they would make more strenuous efforts to raise the required sum.

We know, from the correspondence that reaches us, that there are many anxious hearts in the Industry to-day. We have had a wretched rearing season, but the continued low price of eggs, which leaves such a very small margin of profit, is causing the greater anxiety, the question is often asked, what will be the position in a few years time, when the chances are that foreign competition will be still more keen. It is easy to be either optimistic or pessimistic, apathetic, or indifferent, but it is necessary that we should take as clear and common-sense a view of the situation as possible, in order that we may be able

## A GENEROUS OFFER.

Hoddam Castle,  
Ecclefechan, N.B.,  
23th July, 1922.

Dear Sir,—I have not yet sent you a subscription to the proposed Poultry Institute, but I now make an offer which may stimulate production. When you intimate that you have collected £1,000 I will send you a cheque for £100 (one hundred pounds), the cheque to be returned to me if the Institute does not materialise.

Yours truly,  
E. J. BROOK.

Will our readers assist in every possible way to secure the £100 so generously offered us by Mr. Brook?—(Editor.)

## EDITORIAL.

### FOREIGN COMPETITION.

"The best way to meet Foreign Competition is by becoming more efficient," remarked Sir Daniel Hall in his speech to the Delegates at the National Poultry Parliament. We shall all agree with him there, as we shall with his announcement, that the Ministry of Agriculture consider that the greatest assistance they can give us is by the path of Investigation and Research.

For the reason that on greater efficiency depends whether or no our Industry is to progress or stagnate, it is to be hoped that its contribution to the fund for

to meet it effectively when the time comes.

Sir Daniel referred to disease, to the great discrepancy between chicks hatched and chicks reared, and to Nutrition.

We have here the crux of the situation, the enormous wastage through preventable disease, the awful mortality during rearing. Their connection with Nutrition is not fully appreciated. The latter offers the most promising field for Research. We have Nutritional diseases, diseases due to mal-nutrition and under-nutrition, there is also the great economic waste involved, in the use of foodstuffs which are entirely unsuited to our purpose; how great the total waste is, it is, of course, impossible to estimate, but it must be enormous.

Reference was made to one farm on which the food bill amounted to £5,000 a year, we have reason,

strong reason, for believing that 25 per cent. of this can be saved if the necessary research work can be undertaken.

It is not a simple question of cheaper foods, rather is it one which reduce the enormous waste involved by our present methods of feeding, which will enable us to bring our stock to the productive stage more highly developed, with far higher powers of resistance to disease than they at present possess. We believe, and again we have strong reasons for this belief, that our methods of feeding will be revolutionised in the course of a few years, we are on the threshold of great discoveries, but we are working with a rush light and we want a searchlight.

Our knowledge of Nutrition can at present be only described as Elementary. A little private experimental work which has been undertaken, which we hope to refer to later, opens up great possibilities, what at one time appeared from the poultry keeper's point of view to be rather impracticable, now seems to be coming well within the range of a commercial proposition. It is well not to be premature, but what we have seen is most encouraging, and we are referring to it, not only as a problem in Nutrition, but as something which will enable us to wage far more successfully our fight with disease, because it will give our stock a far greater resistant power. But it is all a question of Research work, further knowledge is needed, more experiments must be carried out, and it is only by knowledge acquired by research work that we can hope to reach that state of Efficiency which will enable us to face the future of Equanimity.

If we can realise that the avoidable waste in every branch of our industry is enormous, whether it be in the chicks which die in the shell, or the chicks which we fail to rear, in the waste in food which is consumed, or in construction, and in labour, we should not hesitate to support the fund for research work.

Much has been said as to the manner in which we market our produce. The following, taken from the "Australian Hen," is a report of a Smithfield Firm to the Director of the Bureau of Commerce and Industry at Sydney, will show that our cousins in the Dominions are fully alive to the value of our markets, and are being encouraged to capture them by reports of our indifference:—

"It has occurred to us here in England that the possible expansion of the table poultry industry should not be lost sight on your side of the globe. I purpose, therefore, from time to time, to keep in touch with the London markets. You will be able then to see what other countries are doing, what price their goods are realising, when you will finally be able to judge in comparison whether it would be worth your while to have a shot at the home markets. It is only at a certain period of the year that foreign poultry is suitable here; the best months for disposal being February, March, April, May, and June. During these months, we may say, 80 per cent. of the poultry is from abroad, the English stocks comprising in the main birds that are 'forward,' tough and hard. Now to replace these: Russia in pre-war days; America, Holland, China and Hungary at the moment, supplying our needs,

the best birds coming from America, where the goods are specially graded and packed for the London markets. Russia is now a nonentity, but time was when her supplies were immense, every successive year telling the tale of improvement in quality. When her trade will be resuscitated no one can tell.

As far as the English poultry and game are concerned this period of the year is looked upon as the 'off' season. It may be computed that 80 per cent. consists of colonial and foreign supplies, the remaining 20 per cent. being largely composed of English poultry, the quality of which is hard and unsuitable for roasting."

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### THE WIRRAL BRANCH.

I hear from Mr. D. Jones, the energetic secretary of the Wirral Branch, that the progress made is most satisfactory, new members are coming in fast, thanks to the attractive programme arranged by the committee, and the material help the members received from it and their fellow-members. I visited the Branch in February with Mr. Mudie-Draper, and we found the members who attended the meeting very keen. Mr. R. A. Currie, who acts as the correspondent, has sent us some very interesting items from time to time.

The officials are most anxious to assist the members in every way, and do their utmost to see they are supplied with foodstuffs of first-class quality at the lowest possible price.

Now they have been successful in promoting a Poultry Section at the Birkenhead Horticultural Show which is to be held on August the 18th and 19th, and they hope for the full support of their members. There are both Exhibition and Utility Classes, the last day to enter birds is August 5th.

The schedule was submitted to the committee of the Birkenhead Horticultural Show, and everything suggested by this Branch of the S.P.B.A. was accepted.

There is one section in particular for members of the Wirral Branch, and the prizes for this section are exceptional for so young a branch. Three silver teaspoons have been presented by:—

Mr. J. D. Cavan, Dalton Park Road, Meols.

Mr. W. G. T. Hargrave, Ivydene, Douglas, Isle of Man.

Messrs. Hampton, Selwyn and Co., Millstream Works, Birkenhead.

There is to be an S.P.B.A. stall in the Poultry tent, and every effort is being made to make this especially attractive. Officials of the Branch will be present to give information, assistance and advice. I feel confident that this great effort will be a success. The officials have been untiring, and with the co-operation of the members there should be no doubt about it. Such good work deserves support. Any communica-

ion addressed to the Hon. Sec., Mr. D. Jones, The Hawthorne P.F., 82, Singleton Avenue, Birkenhead, will receive prompt attention.

#### THE BRISTOL, BATH AND DISTRICT BRANCH.

This new Branch of the S.P.B.A. is already enrolling new members, and I hear from Mr. T. F. Elkington that the prospects are encouraging. I have been asked to visit it on September 14th, and have made arrangements to do so. Mr. Frank Shearn has been elected Chairman for the ensuing twelve months, and Mr. F. T. Elkington, Local Correspondent.

I note the names of many well-known poultry-keepers amongst the members, and their advice and help will, I am sure, be of great benefit to those who have had less experience. We have a good many members in the district, and all who are interested should write to Mr. Elkington, 1, Springfield Avenue, Shirehampton, Bristol.

#### DAWLISH AND DISTRICT FANCIERS' SOCIETY.

Mr. E. Beales, the Hon. Sec. of the above Society, informs me that the date fixed for the Annual Show for Poultry, Pigeons, Cavies, Rabbits, etc., is Nov. 30th.

#### THE LANCASHIRE UTILITY POULTRY SOCIETY.

##### FIRST ANNUAL INTERNATIONAL LAYING TEST.

As announced in our advertising columns, the above Test, which is open to the World, will commence on October 16th, and conclude on September 16th of next year.

The Test will be divided into two sections (1) Large Breeders' Section, (2) Small Breeders' Section, thus the small breeder has a fair chance of showing the capabilities of his stock, and is not discouraged from entering as so often been the case by the fear that his birds would compare unfavourably with the "cracks."

The Society itself awards Gold, Silver and Bronze Medals for the first, second and third in each section. First and Second Class Certificates will be awarded to all pens of sufficient merit. There are numerous Special Prizes, including the "Preston Guardian Cup," value 10 guineas, to be won outright. I am pleased to see the British Minorca Club are endeavouring to revive the interest of utility men in this good old breed by awarding a Gold Medal to the owner of the pen of Minorcas producing the highest average value per bird.

#### WHAT OFFERS.

Mrs. Manwaring has very kindly offered a pen of Fawn and White Indian Runner ducks (four ducks and a drake) for sale, the proceeds to be given to the Fund for the National Poultry Institute. The ducks are heavy layers, and the drake is guaranteed to be from a 314-egg dam. I shall be pleased to receive offers for this pen, and readers will no doubt remember the good cause to which the money will go.

#### S.P.B.A. AGAIN.

Miss K. Wigram, of The Old Rectory, Ordsall, Retford, who is a keen member of the S.P.B.A., has been awarded the First Prize and Silver Medal for the best-kept poultry yard in Nottinghamshire. Congratulations to Miss Wigram, for it is a great thing to win in such a competition.

## Answers to Queries.

By the EDITOR.

#### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

#### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

#### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

W. B. (Hawsker). I don't wish to be impolite, but to put the matter very bluntly, the Professor of Poultry who told your friend that eggs would not hatch from pens mated to a male from the South, because they "would be too weak," is talking idiotic nonsense. You have been at great expense to buy these birds from the South. They are nice strong chicks, and you want to use the males next season. Well then, do so, and don't listen to your friend. In the Burnley Laying Test, Southern breeders are second in the White Wyandotte section, first in Sections 4 and 5, and hold three of the leading positions in the championship sections, and this is as bleak a spot as yours. Males are sent from all over the South to far bleaker places than yours. In any case, as you bought day-old chicks, they should be acclimatised by the time you want them.

W. C. (Manchester). "I have had so many complaints of blood spots in eggs of late, and it is difficult to understand the reason." Generally, it is due to a mash which is too forcing, but this is not always the case. It would help some if you would say whether the spot was in the yolk or white; in any case, the best advice I can give you is to feed rather sparingly, and give one drachm of tincture of iron to every quart of drinking water.



F. S. (South Norwood). I don't understand what you mean by "referring to comments in "Eggs" of July, 1922, but, anyway, you have hens which are laying soft-shelled eggs, and they have plenty of green food, grit, oyster shell, etc. I think the trouble is due to the mash, probably you are using too many potatoes, and the birds are in an over-fat condition. Cut out the potatoes, and see they get plenty of scratching exercise.

C. F. J. (Wokingham). You could keep 14 to 16 birds of a light breed with the accommodation you have. (2) Pale yolks are not uncommon in the winter, when there is a shortage of green food, and wheat

selection for high fecundity materially reduces tendency to broodiness in a flock. I have no faith in any anti-broody pills, and it is misleading to say that a hen becomes broody because for the time being she has exhausted the egg-producing capacity of her system. Do not breed from very broody hens. To break them, give a dose of Epsom salts, place them in a broody coop, where it is light and cool; give them nothing to eat for the first 24 hours, and then feed them well. They will soon come into lay again. The great thing is to catch them at once; don't let them have two or three days on the nest. (2) As you want a non-broody breed, and have out Leghorns and Anconas, I am in a difficulty. Minorcas would have



VISIT OF NATIONAL POULTRY PARLIAMENT DELEGATES TO COL. AND MRS. NAPIER, THE KENILWORTH POULTRY FARM.

is fed as the principle grain. Give as much fresh green food as you can, and let at least half the grain be kibbled maize. When birds are in an anaemic condition they lay pale yolked eggs; in that case they should be given an iron tonic.

A. L. (Newcastle). I am replying to your queries here, as you have been kind enough to give me the alternative, and it helps me considerably to do so. (1) First as to the broody tendency of the Wyandottes. You know this is an inherited factor, and continuous

suit you, the Bresse is broody, but not like the recognised sitting breed. They are not delicate, and you would find either Black or White do well. (3) All the White Wyandottes are good enough to register. They have passed our test, except the one which did not lay until December. (4) I do not think it advisable to use a male from Hen 1 to the pullets. Her record is hardly good enough. (5) I am glad you have such good hatching and rearing results, and note that you have kept to my mash formulas. I have never tried the food you mention, and so cannot express an

opinion. (6) I do not think you have seen the white split maize recommended in "Eggs." There is nothing against its use; there are several varieties of maize, with different analysis. (7) Your incubation results are very good, and I notice you started at 105, which gave a temperature of 102½ on the eggs. (8) You made a mistake in the sample you sent. This is clover meal not maize germ.

W. A. (Cardonald). The percentage of clover in this meal is not very high, and I should call it meadow hay meal. It is a very moderate sample, and I should not care to give more than 12s. 6d. per cwt. for it. (2) Your mash would be better if you replaced two parts of the bran with one part maize meal and one-third. You will get far better results if you feed swede turnips with clover. (3) You would want one trap-nest to every three birds.

P. H. J. (Lisbellaw). (1) Of course, you could use a vigorously healthy Wyandotte cockerel, March or early April hatched, as a stock bird in January, but that is not the point; with highly fecund stock the first consideration is stamina, and for this purpose it is highly desirable that the stock birds should be fully matured. One cannot afford to take such risks as to mate Wyandotte cockerels barely 10 months old. (2) Here, again, we are up against the same problem. You have pullets from special winter layers, hatched first week in March, and you would like to mate them in February next. Well, I would advise you not to do so, especially as they have come from highly productive dams. (3) Cockle shell is not so good as oyster shell, but if the birds have plenty of range it will answer. (4) As these hens have laid so heavily, and are moulting, you should try and discourage laying now. They want a period of rest. I don't think the August-hatched chicks will be worth having.

G. P. (Todmorden). These are not clover shudes. There is a fair amount of leaf in it, but there is too much stalk; 20s. a cwt. is a very high price; it has not half the nutrient value of bran.

Man of Kent (Fleet). I prefer perches at right angles to the back. You could have the nest boxes underneath the dropping boards. That is merely a matter of convenience.

(Devon). If 140 birds are kept to the acre there should be alternate runs, so that the ground can be rested in turn. If they were not penned, and the whole acre in use the year round, 120 would be enough; that is if they are to be there permanently. You are not very clear in your second question, but I think you want to know how much land you would require to rear 240 pullets to maturity. An acre and a half would suffice, but the more you can give them the better.

C. M. C. (Aston Tirrold). The protein of milk is better than that of any other animal food, but dried separated milk or buttermilk would be better for your purpose than the full milk. The percentage you are using is wholly inadequate; you should raise it to 25lbs.

A. W. S. (Nackington). You are using 2cwt. Gluten Feed, one each Dried Yeast, Fish Meal and Meat Meal. This make a very high protein, and an unnecessarily costly mash. Further, the proprietary food is more than is required. I suggest you reduce it by one half; omit the Meat Meal, reduce the Bran to 2cwt., and add another cwt. S.G.O., and one of Middlings. This will give you a cheaper mash, and one which should give better results.

H. M. C. W. (Sutton, Scotney). I should not recommend you to keep Light Sussex, as you say the place is inclined to be damp; more suitable breeds would be the Buff Rock, the R.I. Red, or the Black Leghorn. (2) May I refer you to "Eggs" of June 7th, where you will find dry mash feeding described from shell to maturity. Your other question will be answered by post.

G. V. H. (Tiverton). The Ground Oats are a fair sample, but the price is too high. The Middlings are an average sample. Yes, your present mash is good enough, but rather costly. You could use one part Maize Germ in place of one of S.G.O., or you could use Maize Meal. If you add 10 per cent. Fish Meal, you should cut out the animal food from the house entirely. (2) As to scalding or wetting bran this only makes it less digestible. The only advantage you get from scalding or cooking food is with the carbonaceous food, such as Maize, Rice, etc. With the protein foods the digestibility is not improved by subjecting them to high temperature. (3) The waste cooked bone would only provide you with calcium sulphate. About 2 per cent. of it added to your mash would be useful.

W. E. T. (West Lancing). I am not at liberty to give you all the information you want at present, but in answer to (1) pen of nine birds, which actually constituted the experimental pen, had no grain feed at any time. (2) The total percentage of "B" factor, as represented by "Marmite," was rather more than one per cent. (3) The experimental pen were never at any time on my special diet. (4) I am not aware that the M.R.C. has published anything further on the subject. I hope to be in a position to say more in a week or two's time.

Mrs. Mac (Hambledon). This is a very good sample of linseed meal. (2) We are sending you the information you ask for, re the Light Sussex, by post. I have not space to deal with it here. (3) It is not possible to rear a flock of Black Leghorns without some of them showing the white feather. At the time the breed was made it was said that it would be impossible to get a pure black bird with yellow legs, and this is perfectly true. I daresay that you will have noticed that the birds with the yellowest legs always show the white feather, and in the pullets, which have the densest under-colour, the leg is dusky. (4) Recent experiments are very encouraging, and are likely to effect a revolution in the feeding of poultry, but we must not be premature.

Novice (Woking). This sample is the empty seed cases, the residue from clover after it has been threshed for seed. The percentage of leaf in it is negligible. It is only fit for litter. On many farms they will give it you if you like to carry it away.

C. M. B. (Bakenalstown). The mash as given is suitable for laying hens. If the birds are on grass runs, the Clover or Alfalfa can be omitted. There is no good substitute for Ground Oats. The best thing to replace it would be Oatmeal or Rolled Oats for chicks, and Barley Meal for hens.

Drib (Thundersley). Thanks for your appreciative remarks. I gather from your letter that you want two forcing mashers, one wet and one dry, the only object being eggs from October to March. The following might be used as the dry formula: 6 lbs. Middlings, 2 lbs. Bran, 6 lbs. Maize Meal, 1 Clover Meal, 2 Maize Gluten Feed, 4 Meat Meal. In the wet mash you might substitute for the Maize Meal, 3 lbs. of Biscuit Meal or flaked Maize. To ensure the best results, the grain ration should be cut down to the lowest possible limit, and only given in the form of a scratch feed. This is a very fair sample of Fish Meal.

L. G. S. (Alresford). If you make up the mash now to 3 lbs. Bran, 4 Middlings, 1 each Sussex Ground Oats, Maize Gluten Feed, and Fish Meal, that will answer for the present; when the short days come reduce the Bran by 1 lb. (2) You cannot cure this display of sexual activity with the Leghorn cockerels, it will be best to grade them, that is the only way to manage.

C. E. P. (Marden). Ordinary Bran contains more woody fibre, and is neither so digestible nor rich in mineral salts as the best Broad Bran. There are two qualities of the latter, as it is a trick of the trade I am told to pass ordinary Bran through the rollers twice to give it the appearance of Broad Bran.

E. C. T. (Havant). So much depends on the nature of house scraps; if it is so uncertain in its composition you must balance it as well as you can—for example, some days you say it is chiefly vegetable peelings and meat, then cook it, add 20 per cent. Maize Meal, and dry the whole off with Middlings, if on the other hand there is a fair quantity of bread or puddings, you must omit the Maize Meal, and dry off with the Middlings.

N. C. O. (Carlisle). The sample of clover meal is a fairly good one, but a little too dusty. The other is a good average sample.

#### DUCK QUERY.

W. H. J. (Ipswich) states that 18 I.R. ducklings were hatched in June and more than half have died apparently from cramp at ages varying from 5 to 26 days. They were not put into a heated brooder at all, but merely kept in a coop. I quote the questions asked in full for the benefit of other beginners:—

1. **Question.**—Was it the cold weather, and ought they to have been kept in a brooder?

**Answer.**—I am rather surprised that the whole brood did not die within a very few days. Had the weather been warm and dry and a bag or other covering placed over the coop they might have done fairly well, but as things were they had not a chance. They went into the wet and cold, came back chilled and miserable and had no warmth to keep them. Quite possibly the coop itself was allowed to become wet and dirty.

2. **Question.**—Should young ducklings be allowed into water or to get wet?

**Answer.**—No. Even their drinking water should be in fountains into which they can merely get their heads. Very young ducklings are better in a covered run or shed if weather is very wet. An occasional warm shower does not hurt, but continuous and cold rain is most harmful.

3. **Question.**—Please give a mash for raising ducklings in first stages and also a fattening mash.

**Answer.**—The following is a useful mash for the first three weeks:—

- 2 parts Middlings.
- 1 part Sussex Ground Oats.
- 1 part Maize Germ Meal.
- $\frac{1}{2}$  part Dried Yeast.
- $\frac{1}{2}$  part Fish Meal.

After 3 weeks a little Bran can be added, gradually increasing it to 2 parts. The Fish Meal should also be gradually increased till it is 10 per cent. or even 15 per cent. of the whole.

As fattening mash give as follows:—

- 3 parts Middlings.
- 2 parts Sussex Ground Oats.
- 1 part Maize Meal or Barley Meal.
- $\frac{1}{2}$  part Fish or Meat Meal.

4. **Question.**—Would 11 or 12 weeks birds be fit for Christmas markets or are older birds required?

**Answer.**—11 or 12 weeks old birds would quite possibly be moulting, and, if so, impossible to get into good condition. Ducklings for table purposes should always be killed immediately they are fully feathered, otherwise they will moult, and it will then be several weeks before they could be made fit for killing.

Old ducks would suit the Christmas trade best.

#### POST-MORTEMS.

M. W. Kipling. Your bird's intestine was much congested, and contained many large worms. She was very anaemic. She had marked congestion of liver and lungs. You had better look to see if you can find any worms in the other birds' droppings.

M. Stirling. The young turkey had a yellowish liver and congestion of lungs and kidneys. Is this the only bird you have lost? If so, it might have had a chill. If, however, there should be anything infectious I will let you know next week. There is no time for any germs to grow before the report goes in. I think it would be a good plan for you to give

# A GOLDEN OPPORTUNITY!

**250—1920—Leghorn Hens from our Breeding Pens.**  
**No bird with less than 200 Eggs record in her pullet year.**

*Every Bird in splendid condition and with a clean Bill of Health.*

**Price 12/6 each. Carriage Paid.**

Telegrams:- . . . . .  
Utility. . . . .  
.....Wilmslow



Telephone:- . . . . .  
.....162 Wilmslow

*Full Particulars sent with each Bird.*

## Lindhurst Poultry Farm

Moor Lane,  
**WILMSLOW.**  
CHESHIRE.

*Inspection Invited.*

M.S.P.B.A.

N.U.P.S.

### REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS.

### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags	2 3
12lb. Bags	3 9
22lb. Bags	7 6
56lb. Bags	12 0

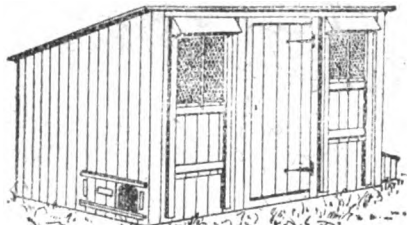
### Prices per Cwt.

	s. d.
1 cwt.	25 0
3 cwts.	24 0
6 cwts.	23 0

Carriage Paid nearest Station in  
England and Wales.  
Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.

## GREAT BARGAIN!



**Only £5 Free on Rail.**

This house is 9ft. 0in. x 5ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected flm. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-;  
if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**  
'Phone: 521 SHIPLEY.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.	s. d.
Dried Buttermilk (for chicks)	20 0	4
Sussex Ground Oats	17 0	0
Maize Meal	11 0	0
Maize Gluten Feed	12 0	0
Pea Meal	10 0	0
Bean Meal	10 0	0
Meat Meal (Fine Ground)	24 0	0
Fish Meal (Best White)	24 0	0
Biscuit Meal (Fine)	25 0	0
Clover Meal	15 0	0
Broad Bran	12 0	0
Middlings (Best Fine White)	15 0	0
Middlings (English)	12 0	0
Feed Wheat (Best English)	15 0	0
Feed Oats (Best English)	15 0	0
Kibbled Maize (Sifted)	18 0	0
Flint Grit	5 0	0
Limestone Grit	5 0	0
Oyster Shell	11 0	0
Cockle Shell	5 0	0
Dried Yeast	20 0	0
Rolled Wheat (for Chicks)	15 0	0
Pinhead Oatmeal	20 0	0
Whole Oat Groats	20 0	0
Broken Rice	10 0	0
*No. 1 Chick Feed	22 0	0
Maah for Laying Hens	18 0	0

(Both the latter are Mr. Tom Newman's Recipes).

**FREE ON RAIL, HEATHFIELD or LONDON.**

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
**HEATHFIELD, SUSSEX.**



# ROUP, GAPES, CRAMP, COLDS, SCALY LEGS AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives instructions relative to the Prevention and Cure of Diseases, in his Book*  
**"HEALTHY POULTRY."**

*Supplied on Application FREE OF CHARGE by the Manufacturers of*

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A LITTLE IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

*At all Chemists.*

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

*At all Chemists.*

**NEWTON, CHAMBERS & CO., Ltd.,** Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

**COMPARE OUR PRICES ALSO OUR SAMPLES**  
**WHICH ARE FORWARDED FREE ON APPLICATION.**

	Cwt.		Cwt.
	s. d.		s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa) ...	18 0	"Moregg" Dry Mash ...	17 0
"Moregg" Laying Meal (no Alfalfa) ...	17 0	Poultry Mixture ...	17 6
Pure Sussex Ground Oats ...	20 0	Poultry Oats (clipped) ...	17 6
Pure Alfalfa Meal ...	22 0	Kibbled Maize (screened) ...	14 6
Pure Clover Meal (not Cob or Chaff Dust) ...	18 0	"Rearall" 1st Chick Feed ...	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt) ...	21 0	"Thryvon" 2nd Chick Feed ...	23 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.) ...	23 0	"Matua" Chicken Mixture ...	20 0
Carriage Paid.		Chick Mash ...	18 0
			Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret, that owing to the short crop of GREEN ALFALFA we have been compelled to raise the price 2s. 0d. per cwt.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS.**

If you want Good Value for Money send to

**A. SYDENHAM HANNAFORD, Hamworthy Junction, M.S.P.B.A., DORSET.**

### My Offer for FENCING STAKES Still Open.

Sizes 2 x 1½, Pointed and Penetrated.  
Price per 12, Carriage Forward.  
4ft., 5/-; 5ft., 5/8; 5½ft., 6/4;  
6ft., 7/-; 6½ft., 7/8; 7ft., 8/4;  
8ft., 9/-; 8½ft., 9/8; 9ft., 11/-.  
NETT CASH ONLY.

### BEST GALV. NETTING.

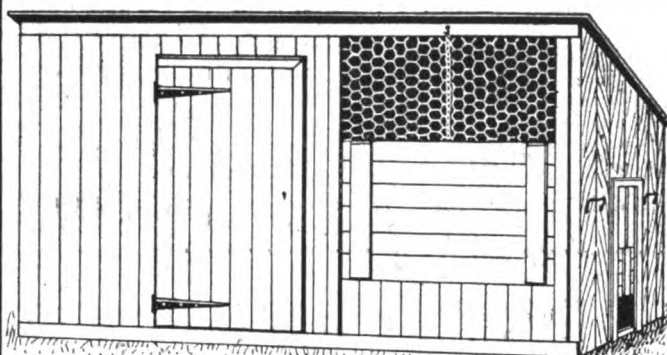
36in. 48in. 60in. 72in.  
in. .... 24/5 32/7 41/7 48/9  
in. .... 14/3 19/- 23/9 28/6  
in. .... 10/11 14/6 18/2 21/9  
In Rolls 50 yards.  
Subject to 2½ per cent. dis. only.  
Carriage Paid on £7 orders.

### FINE BISCUIT MEAL.

is used on my own farm,  
splendid egg producer, and  
doubles itself in bulk.  
24/- per cwt. Carriage Paid.  
5 cwt., 23/- cwt.  
LINT GRIT 5/6 cwt. Car. Paid.  
PASTER SHELL, 10/- cwt. car. pd.  
POCKLE SHELL, 7/9 cwt. car. pd.

### CHINA NEST EGGS.

2/6 per dozen, post free.



### THE "BEAT ALL" HOUSE.

6ft. long, 4ft. wide, 4ft. high front, guaranteed.

**£2 10 0 Carriage paid.**

3 for £7 7s. 0d.; 6 for £14 8s. 0d.; 12 for £28 10s. 0d.  
Floors, 14/-; 3 Outside Nests, 11/6; Felt Roof, 6/-; Penetrated, 5/6.



### 50,000 RINGS IN STOCK.

SPIRAL. IN 10 COLOURS.

Size.	500	400	300	150	100	50	25
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1-Day-old	10 0	8 0	6 0	3 0	2 0	1 3	0 9
2-Two Months	13 9	11 0	8 3	4 3	3 0	1 9	1 3
3-Half Grown	15 0	12 0	9 6	6 0	3 6	2 0	1 4
4 and 5-Leghorns	25 0	20 0	15 6	8 3	5 9	3 0	1 9
6-Wyandottes	26 0	21 0	16 6	8 9	6 3	3 3	2 0

PLAIN FLAT BANDS: 10 Colours, STRIPED, Five Colours.

ALUMINIUM RINGS, all numbers, ALL ONE PRICE.

### The "X-L" SPRAY PUMP.

NEVER SPRAY,  
NEVER PAY!

IT  
PAYS TO SPRAY.

Now is the time to  
Overhaul your  
Poultry Houses,  
etc., etc.  
Also useful to  
Motorists.

**£1 15 0**

Carriage Paid.



### VERMICIDE.

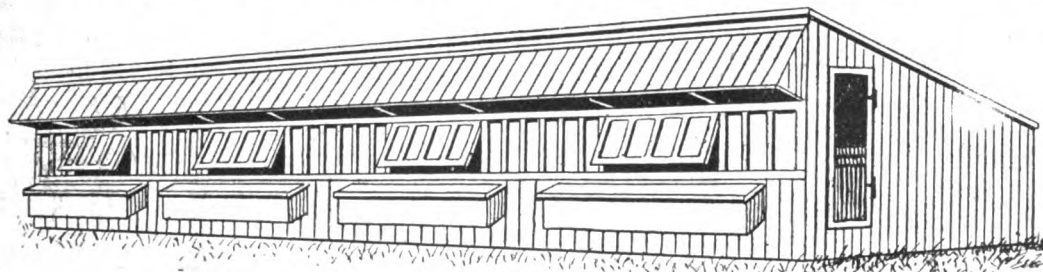
A most powerful killer of vermin  
and all parasite life, a good dis-  
infectant for Incubators,  
Brooders, Houses, etc.  
ONCE USED, ALWAYS USED.  
1 Pint, 2/6; Quart, 4/6; two  
Quarts, 5/6; Gallon, 8/6.  
Carriage Paid.

### PENETRAS.

Finest Preservative on the  
Market, not the ordinary so-  
called Creosote.  
1 or 2 galls., 3/3 gall.; 5 galls.,  
3/- gall.; 40 galls. cask, £2/10/-.  
Cask Extra.  
Carriage Forward.

## The "POPULAR" Intensive House.

VACANCY  
FOR  
PUPILS  
ON  
MY  
FARM.



My Goods can be  
obtained  
through  
MESSRS.  
GRAVES,  
SHEFFIELD,  
on the  
Deferred  
Payment  
System.

Extra Sections can always be added, and my Houses are Guaranteed not to warp and twist as some do.  
Trap-doors are provided in case required for Semi-Intensive purposes.

No.	Long.	Wide.	Front.	Back.					
No. 1.	6ft.	10ft.	7ft.	5ft.	...	£14	5	0	Floor and Sleepers extra
No. 2.	10ft.	10ft.	7ft.	5ft.	...	£19	4	9	Floor and Sleepers extra
No. 3.	16ft.	10ft.	7ft.	5ft.	...	£27	1	6	Floor and Sleepers extra
No. 4.	20ft.	16ft.	7ft.	4ft.	...	£42	5	6	Floor and Sleepers extra
No. 5.	40ft.	16ft.	as illustrated		...	£82	3	6	Floor and Sleepers extra
No. 7.	100ft.	16ft.	7ft.	4ft.	...	£201	8	0	Floor and Sleepers extra

Also supplied with Water Fountains and Stands, also my Dry Mash Hoppers.  
I strongly advise inspection of these large houses before making your purchases.

ALL ABOVE HOUSES HAVE BEEN REDUCED 5 per cent., which reduction I am now making in general. In addition to this I am allowing  
members S.P.B.A., another 5 per cent. on all goods mentioned above with the exception of Stakes. My Brother, late Manager to The Right  
Hon. the Earl of Minto, who is now managing my poultry farm, and who claims 25 years' experience, is open to take two working pupils.

FULL LIST POST FREE.

# **PALMER'S PURE FISH MEAL.** As used by the Ministry of Agriculture, and also the "Daily Mail," N.U.P.S. Bentley, Harper-Adams, and Munster Laying Competitions

Dear Sir,—I cannot claim to have used every other make of Fish Meal, but I have tried a good many, and am satisfied that your Meal possesses that something "different," placing it in an altogether higher category than other makes. Apart from its beneficial effects on the egg-return and health of the birds, it keeps so wonderfully well. I am moved to write in this vein because I have reared about a thousand R.I.R. Chickens and White Runner Ducks this year, some of which had your Fish Meal, while others did not. The former made very much better progress than the latter and can be picked out quite easily at the present time.

Leysdown, Kent.

July 22nd, 1922.

(Major) E. W. GREGORY.

£16 per ton, £8 2s. 6d. per  $\frac{1}{2}$  ton, £4 2s. 6d. per  $\frac{1}{4}$  ton.  
Carriage forward from Hull. 23s. per cwt., 12s. 6d. per  $\frac{1}{2}$  cwt. 7s. per  $\frac{1}{4}$  cwt., carriage paid. FISH GRAINS THE SAME PRICE.

CHICK FOODS  
LAYING MEAL  
SUSSEX GROUND OATS

BISCUIT MEALS  
WAFFER MEAL  
PURE TONIC SPICE

**Fish Meal or Fish Grains 23/- per cwt.**

Carriage paid England and Wales, and to ports.

FLINT  
LIMPET

COCKLE  
OYSTER

OYSTER and MIXED SHELL.

Send a postcard for Samples and Literature to—

**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY.**

## **E. LESLIE PATTISON,**

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS (s.c.)  
WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Bacillary White Diarrhoea.

All young stock reared on Free Range. 50 Acres Grass and Woodland.

SPECIAL QUOTATIONS FOR COCKERELS.

**3 MONTHS-OLD PULLETS, from 10/6 each.**

## **S. & J. PARSONS,**

The Poultry Farm, Musbury, Devon.

Breeders of the Highest Class Poultry Utility Stock in White Wyandottes and White Leghorns.

Stamina and Size of Egg a Specialty. Our birds are consistent winners in various laying competitions, which beyond doubt the question of stamina and high-laying quality of our flock.

Breeding Hens from 8/6 each.  
Selected 1921 Cockerels from 15/- each.  
1922 Pullets from 21/- each.  
1922 Cockerels from 12s. 6d. each.

Our Book, "The Secret of Egg Production" 3/.

Further Particulars on Application.

# **NITROPHOS** Brand of

## **PURE WHITE FISH MEAL**

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

**The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.**

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

**G. R. PINDER, M.S.P.B.A., N.U.P.S.,**

Offers

A Limited Number of BREEDING HENS in WHITE LEGHORNS, WHITE WYANDOTTES.

ALL are Guaranteed to have 12 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

1920 Birds: 7/8 each.

1921 Birds: 12/8 each.

On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. 'Dottes, R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Lindsay Poultry Farm, Carlton, Louth, Lincs.

## **Govt. Surplus. YOUR LAST OPPORTUNITY**

— A Big Bargain in BINS —

**4/3** each } 6 to 12 4/-. 24 to 36 8/6  
complete } Immediate Despatch.

Don't miss this Amazing bargain. Cannot be repeated.

As shown, sound, unused, 20 1/2 x 17 x 17; strong wood case, painted, hinged cover. Inside removable metal bin, hold nearly cwt. corn. Rat proof. Hold water. Boon to smallholders.

**THE LEWIS SERVICE (7), 23 Waverley Rd., Redland BRISTOL.**



the young turkeys powdered catechu in their drinking water till they are three months old. I think this might act as preventative of Blackhead. The dose is one-third teaspoonful in a gallon of water. If you have any difficulty in getting it locally, let me know.

M. T. Dixon. Your chicken had coccidiosis; I found a few coccidia in its intestines. You had better put one-third teaspoonful of powdered catechu in each gallon of drinking water.

R. J. Ellinger. Your bird had peritonitis, due to having ruptured a yolk sac internally. She had also congestion of lungs, liver and kidneys, and a cold in the head.

W. E. L. Your bird had peritonitis, due to having ruptured a yolk sac internally. She had also congestion of liver, spleen, kidneys and ovary. I certainly advise you to stop the quack medicine you mention. I believe it to be worthless, and will tell you why if you will send me a stamped envelope. You have never seen it advertised in "Eggs."

S. P. F. You did not say in which paper the report was to be put. Your bird had very large liver, kidneys and spleen. All three organs were infiltrated with a white growth which was probably cancerous.

A. D. Wilkinson: Your duckling had marked congestion of lungs, liver, spleen, kidneys and pancreas. I don't know any book on Poultry Diseases quite like my articles in "Eggs." These will, however, be published in book form when they are completed. There is a good book on Poultry Diseases by Wortley, published by Kegan Paul, price 7s. 6d.

V. N. P. Your cockerel had congestion of liver, spleen, and kidneys. Is this your only loss? If so, I should think he had had a chill.

## A Man is Known by the Company He Keeps.

You will be in good company if your advertisement is in the Year Book and REGISTER of the S.P.B.A., the eighth annual edition of which is now being prepared.

If you desire to identify yourself with the Industry to which you belong you must have your advertisement in this publication, which is referred to constantly during the year.

Particulars and advertising rates gladly supplied by the Advertisement Manager, 94, Farncombe Street, London, S.E. 16.

## NATIONAL POULTRY COUNCIL NOTES.

### ALLOTMENTS HOLDERS AND LOCAL COUNCILS.

Recently the National Poultry Council received from an allotment holder at Altrincham, in Cheshire, intimation that he had been ordered by the surveyor of the District Council to remove his fowls from an allotment held by him under the Council. Upon this were three pens at least 30 yards distant from the nearest house. The ground upon which they stand was an old refuse heap owned by the ratepayers of Altrincham, and could be used for no other purpose. This man claimed that he kept his birds in good order, and his main object was egg production.

Upon the request of the National Poultry Council, Mr. J. L. Harrington, of the Altrincham and District Utility Poultry Society, accompanied by another member, visited the allotment. They reported that the runs were in a most excellent order and condition, and no one could wish for anything better. There was no overcrowding, as the number of fowls was not one-third of what the run could conveniently accommodate. The report stated further that the whole place was a model of cleanliness, and every credit was due to the owner.

Steps were taken to bring this matter before the Ministry of Agriculture and the Ministry of Health, the former of which communicated with the local authority, and, as a consequent of joint action between the National Poultry Council, the Altrincham Poultry Society and the Ministry of Agriculture, the matter has been satisfactorily arranged. It has been decided that while the present position occupied by poultry could be used for a more suitable purpose, that the poultry keepers must not be deprived of their privilege, and a piece of ground a little farther away is being allocated for that purpose, together with a guarantee for at least five years. It is satisfactory that this result has been arrived at. Any other poultry keeper who may be interfered with should communicate immediately to the National Poultry Council, 31, Essex Street, London, W.C.2.

### POST-MORTEM EXAMINATIONS.

Arrangements have been made in connection with the new Veterinary Laboratories of the Ministry of Agriculture and Fisheries, which are situated at Addlestone, Surrey, to undertake post-mortem examinations for poultry keepers. The National Poultry Council suggest that where a single bird has died, that should not be sent for post-mortem examination, but that it should be in cases where there is mortality on a larger scale. Further, the National Poultry Council asks that poultry keepers sending birds for examination shall pay the carriage, otherwise these may not be accepted. That is an important point. The National Poultry Council feels that the benefits arising as a result of these examinations should be so great to the individual poultry keepers that they ought to bear the expense of the transit to Addlestone.



## Foods and Feeding.

By TOM NEWMAN.

### DIGESTIBILITY.

There is a great deal being written at the present time on the subject of Digestibility. It is all rather amusing to me, because I am often accused of being

Grains.		lbs.	Meals.		lbs.	Animal Food.		lbs.
Maize	...	82.9	Soya Bean Meal	...	78.1	Cut Green Bone	...	73.4
Dari	...	78.7	Maize Meal	...	78.8	Meat Meal	...	72.6
Wheat	...	74.7	Gluten Feed	...	75.4	Dried Blood	...	71.1
Barley	...	72.7	Barley Meal	...	72.2	Dried Skim Milk	...	68.9
Buckwheat	...	65.5	Pea Meal	...	72.5	Fish Meal	...	45.9
Oats	...	58.0	Ground Oats	...	58.1			
			Bran	...	58.0			
			Middlings	...	67.4			

We have had no Digestibility tests with fowls—that is, none on which we can place the least reliance, and if we had, they would not assist us in proving that one food was of greater economic value than another; our test of the value of a food must be based on the rate of growth of our chicks and the productivity of our hens.

I would not care to get up on a platform and tell an audience that maize was so much better a food than oats, as these figures would make it appear to be, neither would I care to tell the audience that meat meal was 25 per cent. better than fish meal, and that Sussex Ground Oats was the least economic food they could buy. I could prove it by these

	Fibre.	Digestible Protein.
S.G.O.	9.9	9.0
Bran	9.5	12.5

Looks as if bran were much the more economical food, does it not? And when we take into account that the protein is of good value, while McCollum has demonstrated that that of the oat is inferior, it looks as if the figures are right, but will your practical experience bear this out? I think not.

I think all this should convince us that Digestibility is not the final test of the value of a foodstuff, that it is easy to attach too much importance to these tables; and that all those who are writing against bran are doing so without a tittle of evidence to back their arguments, while we, who use it freely, can point to results. That is the real test. The mash used in the Australian Laying Test was 60 per cent. pollard, 20 per cent. bran, 15 per cent. alfalfa meal, and 5 per cent. meat meal. When the alfalfa was unobtainable, its equivalent in bran was added. That is 35 per cent. bran in all. On this mash the average for the test was 197 eggs per bird. One pen of Black Orpingtons averaged 241 eggs each, and there was an individual record of 304 eggs.

Now in 100 lbs. of alfalfa meal there are (according to the digestibility tables) only 16.8 lbs. of digestible nutriment, so that the total digestible nutriment in this mash was only 66.5 lbs., but the quality of the protein was very high, and supple-

a thecrist, yet many of the writers, who claim to be practical men, are dogmatizing on a subject, of which, as Sir Daniel Hall said in his admirable speech at Leamington—we know nothing—that is as far as fowls are concerned.

A week or two ago I tried to show that digestibility was not the final test of the value of a foodstuff, what is of importance is the quality of the constituents which are digested. Now let us take the total digestible nutrients in 100 lbs. of the most popular poultry feeds. For the sake of convenience we will divide them into Grains, Meals, and Animal Food:

analysis, but my audience would not believe me, and they would be quite right, yet the "practical" man is advancing these Digestibility tables in the arguments he is using against bran. He is not using his experience, he is using these tables, and he boasts that he is a practical and experienced man, and laughs at those whom he calls "theorists."

Would you believe that your chicks would grow as rapidly if you substituted maize meal for Sussex Ground Oats in your mash? You know you would not, yet if we accept Digestibility as the final test of food value, you should do.

Now Compare Sussex Ground Oats at £17 per ton with Bran at £8. Here are the analysis:

Total Digestible Nutrients.	Ratio.
58.1	1.5
58.0	1.3

mented as it was by 2 ozs. of cracked maize and wheat was sufficient to keep the birds in health and production. In a more severe climate it would no doubt have been necessary to have given more heat-giving foods in the mash. What is most striking in this feeding is the small percentage of animal protein, it should prove to us that our fish meals and meat meals should be only used to supplement the vegetable proteins, and should definitely prove that the high percentage of animal protein which we use is unnecessary and wasteful in the extreme. Animal protein should be only used to supply the deficiencies in that of the vegetable, which we know are lacking in the amino-acids—Trytophane, Lysine, and Cystine.

As I have said before, we hear too much of such and such a food being good and bad for egg production, and are too apt to forget that no food is complete in itself, and that any food fed to excess will cause digestive disturbance. Maize here is shown to be the most easily digested of all foods, yet it would cause digestive trouble far more quickly than middlings if it were fed in the same proportion. We are attaching far too much importance to chemical analysis, and are not using the evidence of our eyes, and the facts proved by long experience.

# National Poultry Institute List.

TO MEMBERS OF S.P.B.A. AND READERS OF  
"EGGS."

(To the Editor "Eggs.")

July 18th, 1922.

Ladies and Gentlemen,—I thank you very sincerely for the support you have given to our appeal for contributions towards the fund the S.P.B.A. is raising for The National Poultry Institute. It is a matter for congratulation that the £500 mark has been passed, and I now have no doubt that we shall ultimately obtain the £1,000 we have set ourselves out to raise.

So far poultry keepers have not shown that they appreciate the offer that has been made, or that they realise the advantages that the Institute will bring to the Industry. Not one quarter of the Members of S.P.B.A. have yet sent contributions, and there is also no doubt a considerable number of poultry keepers who read, and gain information from "Eggs," who are not Members of the Association, but from whom donations might be expected. A contribution of, say, 2s. 6d. or 3s. per head, from these sources would give us the sum we are aiming at.

The very handsome donation from Messrs. Armitage Bros. is not only just appreciation of Mr. Newman's great work in advising how to feed, and the influence "Eggs" has been, and is, in this matter, but it should also be an incentive to other firms who have derived benefit from the growth of the Poultry Industry to follow their excellent example.

Again thanking you for your effort, and in the confident expectation that with your further assistance the National Poultry Institute will soon be an accomplished fact.

I am,

Yours faithfully,

J. GERARD KITSON,

President.

NINTH LIST.

Brought forward	...	...	£532	10	3	s.	d.
V. J. Youens	...	...	...	...	...	5	0
Mrs. J. B. Capper	...	...	...	...	...	2	6
Mrs. R. Campbell	...	...	...	...	...	5	0
Miss R. D. Bettison	...	...	...	...	...	5	0
C. Ross	...	...	...	...	...	5	0
W. Whitaker	...	...	...	...	...	5	0
C. Spiller	...	...	...	...	...	5	0
J. S. Westerman	...	...	...	...	...	2	6
A. Jaques	...	...	...	...	...	2	6
Miss Argles	...	...	...	...	...	5	0
Dr. Plummer	...	...	...	...	...	20	0
W. Sillem	...	...	...	...	...	10	0
Miss Coles	...	...	...	...	...	5	0
J. Whittingslow	...	...	...	...	...	5	0
F. Scott	...	...	...	...	...	20	0
Miss M. Huie	...	...	...	...	...	2	0
F. W. Bartholomew	...	...	...	...	...	10	0

	...	...	...	...	...	s.	d.
Miss J. F. Fergusson	...	...	...	...	...	2	0
F. E. Gillierison	...	...	...	...	...	10	6
C. Russell-Jephcott	...	...	...	...	...	2	0
Lieut. D. F. Lawrence	...	...	...	...	...	10	0
A. Wood	...	...	...	...	...	2	6
C. H. Rivers	...	...	...	...	...	10	0
E. S. P.	...	...	...	...	...	2	6
S. A. W.	...	...	...	...	...	10	0
F. S. Low	...	...	...	...	...	100	0
C. F. C. Stewart	...	...	...	...	...	5	0
Miss F. Osborne	...	...	...	...	...	2	6
G. Y. Fort	...	...	...	...	...	5	0
J. Owen	...	...	...	...	...	10	6
C. E. Richards	...	...	...	...	...	2	6
Mrs. V. Parsons	...	...	...	...	...	10	0
The Northwood P.F.	...	...	...	...	...	10	0
J. S. Aitchison	...	...	...	...	...	10	0
Mrs. J. Nicholson	...	...	...	...	...	10	0
Lieut. D. W. Bellamy	...	...	...	...	...	10	0
R. H. Howard	...	...	...	...	...	5	0
Lady Sybil Codrington	...	...	...	...	...	10	0
Miss F. E. Bean	...	...	...	...	...	10	0
P. E. Medley	...	...	...	...	...	5	0
Capt. C. F. Holford	...	...	...	...	...	20	0
E. Carter	...	...	...	...	...	5	0
Miss W. I. Hoare	...	...	...	...	...	15	0
Miss W. E. Hey	...	...	...	...	...	2	6
Capt J. S. C. Fade	...	...	...	...	...	2	6
Jack Sheard	...	...	...	...	...	2	6
Geo. W. Cooper	...	...	...	...	...	1	0
Mrs. Meynell	...	...	...	...	...	10	0
E. S. F.	...	...	...	...	...	2	6
J. A. Eddleston	...	...	...	...	...	5	0

Total ... .. £554 5 9

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING FRIDAY, JULY 28th, 1922.

GRAIN AND FEEDING STUFFS.—The small supplies of English wheat on offer maintain last week's prices. Home-grown barley is firm in value while oats also realise recent rates. American maize is in short supply and again dearer, the average price of 39s. 6d. per 480 lbs., showing an advance of 2s. per quarter on the week, while Argentine has also advanced except at Liverpool where recent arrivals have caused a decline. Milling offals are in fair demand at about recent values. The limited quantities of maize meal available realise £10 2s. per ton, or an advance of 10s. on the week.

MILLERS' OFFALS.—Bran (British): Bristol, £7; Hull, £6 7s.; Liverpool, £6 7s.; London, £6 12s. Broad Bran: Hull, £7 17s.; London, £8. Fine Middlings (Imported): London, £9 10s....Coarse Middlings (British): Bristol, £9 15s.; Hull, £9 2s.; Liverpool, £8 10s.; London, £8 12s. Pollards (Imported): Hull, £7; Liverpool, £7 7s.; London, £7 5s. Rice Bran: Bristol, £8; Liverpool, £7 15s.; London, £7 17s. MEAL.—Barley Meal: Bristol, £11 10s.; Hull, £11; London, £11 5s. Maize Meal: Bristol, £10 5s.; Hull, £10; Liverpool, £10. Maize Meal (S. African): Hull, £9; Liverpool, £9 10s.; London, £9. Maize Germ Meal: Bristol, £9 15s.; Hull, £9 5s.; London, £9 12s. Maize Gluten Feed: London, £9 5s. Bean Meal: London, £13 10s.

## EGGS AND DEAD POULTRY.

Imported eggs are easier, but British are firm in value. Week-end prices, eggs per 120: English, 18s.; Irish, 13s., 15s.; Dutch all brown, 16s., 17s.; Danish, 18lb., 15s., 16s.

## EGGS.

Per Doz.—Ashford: First, 2s. 2d.; Second, 2s. 0d. Birmingham: First, 1s. 8d.; Second, 1s. 7d. Carlisle: First, 2s. 0d. Chelmsford: First, 2s. 0d. Derby: First, 1s. 8d. Dorchester: First, 1s. 10d. Exeter: First, 1s. 10d. Hereford: First, 1s. 6d. Hull: First, 1s. 10d. Ipswich: First, 2s. 3d.; Second, 2s. 0d. King's Lynn: First, 1s. 8d. Lincoln: First, 2s. 0d. Llandilo: First, 2s. 0d.; Second, 1s. 10d. Montgomery: First, 1s. 6d. Newport (Mon.): First, 2s. 0d.; Second, 1s. 10d. Norwich: First, 2s. 0d. Oswestry: First, 1s. 9d.; Second, 1s. 7d. Penzance: First, 1s. 6d.; Second, 1s. 5d. Salisbury: First, 1s. 9d.; Second, 1s. 8d. Shrewsbury: First, 1s. 9d.; Second, 1s. 8d. Skipton: First, 1s. 9d. Taunton: First, 1s. 8d. Truro: First, 1s. 5d. York: First, 2s. 3d.; Second, 2s. 2d.

## FOWLS.

Per lb. Birmingham: First, 1s. 6d.; Second, 10d. Derby: First, \*3s. 9d.; Second, \*2s. 3d. Exeter: First, 2s. 0d. Hereford: First, 1s. 6d.; Second, 1s. 0d. Ipswich: First, \*5s. 6d.; Second, \*3s. 6d. Lincoln: First, \*5s. 0d.; Second, \*3s. 6d. Llandilo: First, 2s. 0d.; Second, 1s. 8d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 1s. 10d.; Second, 1s. 8d. Shrewsbury: First, \*7s. 6d.; Second, \*6s. 0d. Truro: First, 1s. 7d. York: First, \*5s. 3d.; Second, \*4s. 6d.

## DUCKS.

Per lb.—Birmingham: First, 1s. 6d.; Second, 1s. 3d. Derby: First, \*4s. 3d.; Second, \*3s. 3d. Exeter: First, 1s. 6d. Hereford: First, 1s. 4d. Llandilo: First, 2s. 0d.; Second, 1s. 8d. Shrewsbury: First, \*9s. 6d.; Second, \*8s. 6d.

\* Per Head.

## APPLICANTS FOR MEMBERSHIP.

Bailey, Chas. V., Manor Farm House, Beauworth, Nr. Alresford, Hants.  
Binet, F., Matlock Training Centre, Matlock, Derbyshire.  
Tharle, W. B. Barton, 51, Braydon Road, Clapton Common, London, N.16.  
Bradshaw, W. H., The Acre Poultry Farm, Preesall, Nr. Preston.  
Osborne, H. F., 282, Angel Road, Edmonton, N.18.  
Plimmer, Dr., St. Thomas' Hospital, London.  
Burgess, Capt. H., Ridgeway, Rayleigh, Essex.  
Woolard, L. J. W., Chalk Farm, Bottisham, Nr. Cambridge.  
Getliffe, C., Moorland Poultry Farm, Retford.  
Young, Harold S., Warren Poultry Farm, Shaws Road, Birkdale, Southport.  
Radfearn, Miss E., Moor House, Moor Lane, Gt. Crosby, Liverpool.  
Norman, Mrs. E. F., Hill Top P.F., Woodstock Lane, Kingswood, Bristol.  
Norman, A. G., Hill Top Poultry Farm, Woodstock Lane, Kingswood, Bristol.  
Baker, E. R., 18, Richmond Terrace, Avonmouth.  
Winstone, A. W., Tickenham Poultry Farm, Nr. Nailsea, Somerset.  
Lutener, Mrs., Clun Vicarage, Shropshire.  
May, Charles S., St. Bartholomew's Priory, Sudbury, Suffolk.  
Lee, Norman, A., Nately Hatch, Hook, Hants.  
Maj. E. G., Sheppard, D.S.O., M.V.O., T.D., Stonehouse Egg Farm, Plummers Plain, Nr. Horsham.  
Holder, Mrs., Guy House Farm, Denham, Bucks.  
Carter, Edward, The Collinge, Backford, Nr. Chester.  
West, R., Kendal House, Victoria Road, Thornton-le-Fylde.  
Oven, W., 206, Hamlet Court Road, Westcliffe-on-Sea, Essex.  
Archer, Miss K., Osbourne House, Ore, Hastings.  
Birkett, Miss Annie, O.B.E., River House, Elstead, Surrey.  
Wilcockson, George, Bradshaw Hall P.F., Middleton Junction, Nr. Manchester.  
Collier, Miss Madeleine, c/o Miss Malcolm, Wellingham House, Wellingham, Ringers, Lewes.  
Lawson, Miss Mena G., Ardross, New Haw, Addlestone, Surrey.

## SALUBRENE EGG COMPETITION.

The Salubrene Egg Competition was held on Thursday, July 20th, in connection with the Tottenham Educational Show, in the Parish Hall, Braemar Road, Tottenham.

The Tottenham people, under the leadership of Mr. H. A. Hussey, are past-masters in the art of show management, and they can certainly be highly complimented on the efforts on this occasion.

The entries in the Egg Competition were not as large as might have been expected, but there were many splendid exhibits, among which were all the more creditable from the fact that only small poultry-keepers, with not more than 35 hens, were eligible to enter.

Eggs came from practically every part of the country, from the North of Scotland, down to Devonshire. This shows that the purpose of the competition, the spreading of the knowledge of the vital importance of the mineral side of poultry keeping, particularly in connection with the use of Salubrene, a natural product, singularly rich in the various life-giving salts, is rapidly gaining ground.

The judging was kindly undertaken by Mrs. Comyns-Lewer, of the "Feathered World," and Mr. T. R. Robinson, the Organising Secretary of the National Poultry Society; and Mr. Charles Westherley, of Leadenhall Market, acted as referee.

The prize list was as follows:—£10 10s., £5 5s., £2 2s. (confined to members of poultry societies), and three prizes of £1 1s. A considerable number of prizes in kind were also awarded.

It was found impossible to separate the two leading exhibits, both of extraordinarily fine white eggs, and so the first and second prizes were divided. They went to the North of England, one to Yorkshire, and the other to Lancashire. The third prize for an exceptionally fine level set of dark eggs went to London, as also did the fourth and sixth lots, both very attractive exhibits. The fifth money prize went to Suffolk for a well-chosen set of whites.

It was a great pity that so many eggs were found broken on delivery at the shows; in one case every single egg was a pulp. To entrust valuable eggs for exhibition to an old cardboard shoe box with no protection but a thin wrapping of newspaper, and to expect them to travel safely through the post for a couple of hundred miles is not the way to win valuable prizes.

The eggs have been given to the Children's Hospital.

## SALUBRENE EGG COMPETITION PRIZES.

1st and 2nd were equally divided between:—

J. H. Caride, 95, Lydgate, Springhead, Oldham, Lancs.

J. Cornforth, Stang End, Danby, Yorks.

3rd Prize:—

H. D. Ashdown, 71, Neville Road, Forest Gate, E.7.

4th Prize:—

Frank Hussey, 88, Park Lane, Tottenham.

5th Prize:—

F. G. Graves, Hayland Road, Bures, Colchester

6th Prize:—

Frank Hussey, 88, Park Lane, Tottenham.

21 other Prizes were awarded.

## BACILLARY WHITE DIARRHOEA. HENS INFECTED BY CHICKS.

*Reply to Mr. Newman's Note on Page 19 of "Eggs,"  
July 12th.*

1. A definite positive finding will supersede any number of negative ones. I gave definite proof of my statement as follows:—(1) The hen's chicks had died of B.W.D. (2) A few days later the hen died, and I found B. Pollorum in her organs, not in her ovary. Therefore, she was not a "carrier" of the infection. (3) She had cheesy nodules in her organs, just like a chick with B.W.D. In fact, when she was opened, the appearance was as of a chick with B.W.D., much magnified. (4) If Mr. Newman considers that she did not catch B.W.D. from her chicks, will he kindly tell me how he thinks she did get it. (5), As Mr. Newman thinks it is impossible for chicks over four days old to catch B.W.D., will he kindly allow the following experiments next Spring:—Let us take some of his own chicks, which he must guarantee have never been near any case of B.W.D. We might have three lots: (a) one week old, (b) three weeks old, (c) five or six weeks old, and we will put each lot with some chicks which have been proved to have B.W.D., and see what happens. I say that some of them will catch it. He does not believe this, so he can have no objection to the experiment.

As a general rule, big chicks do not take B.W.D. Also, as a general rule, adults do not take measles. Why? Measles is so prevalent that most children come in contact with it some time or other. Those who are susceptible take it when they are small, and, as it usually protests against a second attack, they consequently do not have it when they grow up. Those who are not susceptible to it do not have it, either when young or when old, unless at any time they get run down, and also lose their immunity.

It is very similar with B.W.D. When this infection is on a farm, all the chicks will come in contact with it. Those which are susceptible will take it early, and consequently will either die, or recover and become immune. Those which are not susceptible to it will not take it at any time unless they get run down.

But on a farm where there is no B.W.D. none of the chicks come in contact with the disease at any time, and, therefore, they don't take it at any age. However, as the susceptible ones will not have been killed off, I feel sure that if B.W.D. were introduced among them later, many of them would take it.

I don't quite know what "the best opinion in America" means; but, whatever it means, a negative finding can never stand against a positive one. If anyone has NOT found a thing that stands until someone else finds it—and no longer. It simply means that that particular person has not succeeded in finding it. It does not mean that no one else will succeed in doing so. While a positive finding is a definite proof that the thing is there, and a negative finding is no proof of its absence. Within the last few days I

## Time and Tide.

Wait for no man. Don't put off that insurance of your farm and stock another day, or you may have a heavy loss to-morrow. Accidents WILL happen on your farm, but a little foresight will often save endless regrets and heavy loss.

An Insurance Policy against fire, theft, damage by storm, foxes, etc., can be effected through "Eggs" at the minimum of expense and trouble. Why not drop a post card to The Advertisement Manager, 95, Farncombe Street, London, S.E.16, for proposal forms, rates of insurance, etc., which he will furnish free and post free.

have had two pullets, five or six months old, which died of B.W.D. I got the B. Pollorum from their organs. In one of them there were definite cheesy nodules in heart, liver, gizzard—just like a chick. How will Mr. Newman explain this?

(We venture to point out to Miss Knight that we have nothing to explain. We made no assertion but asked a question. The "best American authorities," to whom we referred, were Dr. Prince Woods, Professors Stoneburn and Rettger. We will again quote Rettger:—

"Marked, healthy, hen-hatched and incubator-hatched chicks from fumigated incubators placed in brooders with white diarrhoea chicks, and under hens having diseased chicks in the flock, did not contract the trouble, and lived and thrived well. This, I believe, supports the statement that the disease, if contagious, is contracted very early in the life of the chick, at least sometime before it is 48 to 72 hours old, and also that it attacks only susceptible individuals."

Further. "With few exceptions the deaths from typical Bacillary White Diarrhoea occur while the chicks are under one month old. After this a few straggling deaths may be expected, and if complications set in a high mortality may be observed. The chicks which have had Bacillary White Diarrhoea seem to be greatly weakened in constitution, and fall an easy prey to disorders which would be resisted by normal chicks." (Editor).

## Correspondence.

### MANGOLDS AND HATCHABILITY.

(To the Editor "Eggs.")

Dear Sir,—Re mangolds tending to poor hatching results, perhaps my experience for the last ten years use of mangolds may prove of interest. Looking at my feed account, I find that my breeding hens and cockerels got through over one cwt. of good large mangolds every season per head. They are always fed raw. I have 100 per cent. hatches reported from the very North of Scotland, the West of Ireland, and in many other parts as well. The last report I had this year was 48 chickens from 48 eggs sent out.



Of course, as is the case of most breeds sending eggs to Novices, I get second-class reports at times. As, for instance, one customer forgot to tell me that he had shifted from the North to the South, while another man kept his eggs for 21 days and sent his egg a long journey for someone else to hatch for him. Needless to say, such people never get good hatches. Anyhow, I think I am justified in thinking "Mangolds mean bad hatches" is Bunkum.

Yours truly,

J. H. BURN-MURDOCH.

### MANGOLDS AND HATCHABILITY.

(To the Editor "Eggs.")

Dear Sir,—With reference to the discussion in "Eggs" on Mangolds.

I have used Mangolds every winter for ten years for all my fowls; there is one rule I make, and that is, never to use a Mangold before Christmas, as I do not consider that they are ripe before that date. I feed them raw. In this way each Mangold is cut in half with a sharp spade, and stuck on cut nails which are specially fixed on a thick piece of wood, attached inside the house in a light position. My fowls have a great liking for these Mangolds, and as I so thoroughly believe in the use of them I allow my fowls to eat as much as they wish. Each winter (from Christmas to end of April) the total Mangolds used is many tons. We grow them specially for the poultry.

Any pieces and skin left is cut up and cooked with the vegetables and fed in the mash.

Yours truly,

(Miss) HARRISON BELL.

### LINSEED MEAL.

(To the Editor "Eggs.")

Sir,—I wonder if any readers of "Eggs" have had experience in the feeding of Linseed Meal to layers throughout the year. It was a remark of yours some months back, to the effect that we were neglecting the need for feeding fats to the heavy producer, which induced me to try permanently including linseed in my mash; and soon afterwards a neighbour told me that he always fed this meal to his hens instead of Fish or Meat Meal. He claimed that he obtained as good results at slightly less cost.

The proportion of Linseed that my birds are getting is about one-twentieth of the volume of the dry mash. This also includes a similar proportion of Dried Yeast, and the meal according to the season.

The results that I have noticed so far are, I think, satisfactory, but until the moult is over it is perhaps early to draw conclusions; for I have a hope, probably, to be dashed to the ground like most of the hopes we are apt to cherish about our little changes of method. I have a hope that the birds will be better equipped for an easy moult and early recovery owing to this provision of oil, for they are unquestion-

ably looking better than did my birds at this time last year and have not that washed-out appearance of the heavy layer at the close of the season.

Loss of pigment, too, is much less pronounced than it was last year. I do not trapnest, but I am fairly sure that I do not carry many passengers, for I go by a Table of production published last year in "Eggs," which gives the number of eggs a high-fecund pullet should lay in each month; and if ever my percentage falls below this I cull until it comes right again. As a general rule, I expect it to be slightly more.

PHILLIP LARCOM.

## AUGUST NOTES FOR INTENSIVISTS.

By "MIDDLESEX."

Birds kept intensively often seem to flag in August, and attention should now be given to keep them in condition, so that a good supply of eggs may be maintained until they moult. Since fowls often lose condition through improper feeding, a few hints on this subject may be opportune. I suggest the following mashes (parts by weight):—

**Wet Mash.**—Scald one part Biscuit Meal, one Maize Meal, and "dry off" with one Sussex Ground Oats, one Fish Meal, one Bran, and about six of Middlings.

The mash should not be made too dry, but at the same time it should not be like pudding. I advise the mash to be fed as the last feed, and 1oz. of oats to be given as the first, and ½oz. of wheat about 11 o'clock.

**Dry Mash.**—Three parts of Bran, one Maize Meal, one Sussex Ground Oats, one Fish Meal, four Middlings.

When dry mash is fed, ½oz. wheat should be given as the first feed, and 1oz. of oats as the last, the dry mash hoppers being open from about 10 o'clock until sunset.

The novice is often puzzled to know which of the two systems (wet or dry) to take up, as he has heard such varied opinions of each, but it is always best to practice the system which appeals to one the more. Personally, I do not think there is any choice between the two.

With either method plenty of greenstuff and limestone grit (or grit and shell) should be supplied, and the water fountain should never be allowed to run dry. An occasional dose of Glauber or Epsom salts (about 1oz. to 15 birds) is beneficial at this time of year, but it must not be given too often.

It is now time to consider next year's operations, and the culling of the older hens should soon take place, to make room for this year's pullets. Mr. Newman has often described in "Eggs" his excellent system of culling, so suffice it to say that birds with the following characteristics should be killed for table or sold as soon as they stop laying.

**Yellow legs and beak,** showing that the bird possesses plenty of pigment, which would have disappeared had she laid many eggs. Those having pink in their legs should also be culled.

*Shallow eyes and long nails.* Birds with shallow eyes usually prove to be poor layers, and long nails show that the bird is not active, and poor laying generally accompanies inactivity.

*Lacking in width of abdomen.* To be a good layer a bird must have good abdominal capacity.

Those lacking stamina or suffering from scaly leg are best done away with, as they are more trouble than they are worth.

Early moulters are almost always poor layers, unless they were hatched early in the previous year, and did not have a pullet moult.

The bird to be killed should be placed in a coop and starved for twenty-four hours, then their necks should be wrung. The confinement in the coop is supposed to loosen their tendons, as they cannot exercise, and thus make them more tender. Do not attempt to fatten them, for the "game is not worth the candle" with small numbers.

This time of year presents a good opportunity for creosoting the houses outside, and for making any necessary repairs. It is fatal to leave these jobs until winter is upon us.

Do not creosote the inside of houses where there are young pullets, since the fumes from freshly-applied creosote tends to make them moult.

When the hens have finished moulting, thoroughly clean out their house, and encourage them to start laying again quickly.

If it is avoidable do not mix pullets with hens, nor a light breed with a heavy breed. One "party" usually gets the worst of it.

Finally I advise intensivists to be quite prepared when winter arrives.

## THE SECOND WORLD'S POULTRY CONGRESS.

An invitation has been received from the Spanish Government by the International Association of Poultry Instructors and Investigators for the Second World's Poultry Congress to be held in that country, in 1924. In the course of a few days Mr. Edward Brown, F.L.S., President of the International Association, is leaving for Spain in order to consult with the Spanish Authorities and Mr. Salvador Castello, who has largely been responsible for the invitation, and to learn what are the proposals made for the Congress and Exhibition to be held at the same time. Mr. Brown will be accompanied by Mr. T. R. Robinson, who was a most active member of the Executive Committee of The Hague Congress, in addition to being Secretary of the British Congress Committee.

It will be remembered that Spain took a very prominent part at The Hague, and its Government, realising the needs of the situation, would welcome the co-operation of other countries by their participating in the Congress, should the invitation be accepted.

Breeders will be specially interested in remembering that several of our older breeds had their origin

in Spain, and that lesser known varieties are being improved in that country.

Mr. Brown desires us to state that he expects to be back by August 15th, and that during his absence letters will not be forwarded to him. Arrangements, however, are made for dealing with general communications until his return.

## "EGGS" and WHAT OTHERS THINK.

### WORDS OF APPRECIATION FROM ADMIRING FRIENDS.

Steady and constant increase in the circulation of "Eggs" has long convinced us that the lines on which this journal is conducted are popular amongst all interested in the breeding and rearing of poultry, but recently this popularity has culminated in such a host of congratulatory Testimonials and Letters of appreciation being received that we feel justified in publishing the following for the information of our readers and advertisers:—

#### TESTIMONIALS.

Dale Farm, Thorpe by Haddiscoe,  
Norwich.

"May I take this opportunity of expressing my appreciation of that wonderful little Journal 'Eggs,' and wishing the S.P.B.A. every success."

GEORGE E. HAYNES.

"Freda," Kempshott,  
Basingstoke, Hants.

"Dear Sir,—I should like to say thank you for all the help I have found in your paper 'Eggs.' It undoubtedly is the best Poultry paper printed."

F. TAPLIN.

The Laurels, Onslow Gardens,  
Wallington, Surrey.

"I enclose a P.O. for 5s. for your splendid work and wish it every success, but sincerely hope it will not take you away from 'Eggs,' as all I know about Poultry, in common, I suppose, with nearly all ordinary members, I owe to your articles, and your most patient answers to questions of feeding and management in 'Eggs,' which I read each week from cover to cover."

C. L. LEADBITTER, M.S.P.B.A.

Dranagh Caim, Enniscorthy, Ireland.

"I have much pleasure in saying that 'Eggs' is the only real Poultry Paper printed."

W. J. FURLONG.

Cophall P.F., East Dean, Eastbourne.

"I should like to take this opportunity of expressing my appreciation of 'Eggs.'"

"I have found the article on 'Foods and Feeding' and 'Chick Rearing' particularly useful."

BESFORD SWORDEN.

Maine P.F., Blackpool.

"'Eggs' is a tremendous help to a man like myself. I am too heavily disabled to undertake any form of professional work, and but for the help of such an organisation as the S.P.B.A. it would be almost impossible to expect success except at the cost of much bitter and laborious experience. Thank you."

F. BEAUMONT.

Bedw Cottage, Whitford, Holywell.

"Please send me 'Eggs' for twelve months. I should like to congratulate you on its contents, being, in my opinion, the most up-to-date poultry paper published."

R. WILLIAMS.

## COCCIDIOSIS IN RABBITS AND POULTRY.

*By courtesy of the Ministry of Agriculture and Fisheries, we are able to publish that portion of the leaflet 364, dealing with Coccidiosis in Poultry. There is much valuable information contained in it which we are confident our readers will appreciate.*  
—(Editor).

Coccidiosis is a disease of various domesticated and wild animals caused by the multiplication of a very small protozoan parasite in the tissues of the intestine and liver. The casual parasites are commonly grouped under the general name of Coccidia. Amongst the animals most frequently affected by the disease are rabbits (both domesticated and wild), poultry, feathered game, sheep, goats and cattle. Coccidiosis of rabbits has long been known in this country, having been first reported by Hake in 1839. Generally speaking, each animal, or group of animals, has its own particular species of coccidium, and the disease is not inter-communicable between two groups of animals, thus the parasite of rabbits does not cause disease in poultry, and vice versa. This view, however, is contested by some observers, who claim to have produced the disease experimentally in poultry by feeding to them the faeces of rabbits infected with rabbit coccidiosis.

**The Parasite.**—The parasite as found in the faeces of an affected animal is a small spherical or ovoid body, whitish or pinkish in colour, measuring roughly about 1/750th part of an inch in its greatest diameter. Zoologically the coccidia are related to the group of animals which contains the malarial parasite and others of similar habits. That stage of the parasite which is passed out in the faeces of an infected animal is a fertilised egg, which may be called for convenience the "egg cyst." This "egg cyst" requires from 2 to 16 days (according to the temperature) in the outside world to carry on its development to a point sufficient to enable it to infect another suitable animal host which may swallow it with its food or drink. The "egg cyst" stage passed out with the faeces of a previously infected animal is in this manner enabled to give rise to subsequent infections. During the period of outside development of the "egg cyst" certain conditions are necessary in order that the parasite may survive. The essential conditions are a certain temperature, moisture and access to free oxygen. The temperature requirements of the "egg cyst" practically restrict the incidence of coccidiosis (at least in epizootic form) to that part of the year when mild weather prevails, i.e., spring, summer and early autumn.

Severe outbreaks of coccidiosis most commonly occur in the spring of the year, because it is at this time that very young stock, which are the most susceptible, are present in large numbers. To this outside existence, which obviously constitutes the

weak spot in the chain of the parasite's life history, reference will be made later. When the "egg cyst" has completed its outside development, it contains a number of small crescent-shaped bodies which are to all intents and purposes individual parasites. At this stage, if taken in by a susceptible animal, the covering of the egg is dissolved by the digestive juices and the small bodies in its interior are liberated in the intestine of the animal. These small bodies attack the cells lining the wall of the intestine, or the cells of the gall duct. A parasite enters one of the cells of the wall and there enlarges to become a spherical body. It next divides into portions like the segments of an orange, and these individual segments attack other cells in the interior of which they in turn enlarge to become spherical bodies like their parent, afterwards following the same segmenting process and giving rise to further numbers of parasites which again repeat this process. This process of "non-sexual" division by segmentation goes on for a considerable time. It causes destruction of important cells, and it will readily be understood that when the invasion is heavy it produces considerable disturbance in the health of the infected animal. When the parasites are very numerous a weak animal may even die in this stage of the disease. However, it is not to the interest of the parasite to cause the death of the host without ensuring further propagation of its own race, so accordingly a new phase of multiplication sets in. On reaching the spherical stage have been found alive at the end of even longer stage some of the parasites produced by the segmenting process appear to take on a new form. Certain of these undergo various internal changes and then divide into numerous smaller segments somewhat different from those usually formed. These are the male elements. Others of the parasites enlarge to reach the spherical stage and then take on the characters of an unfertilised egg. Fertilisation of the eggs by the male elements next takes place, and there is now the "egg cyst," the same stage as that with which the infection began.

While these processes have been going on the presence of the parasites in the tissues has inflamed and irritated the cells of the intestine and gall ducts so that many are destroyed and others are being shed. In this manner the egg cysts are enabled to pass to the outside world with the faeces. After a few days spent under favourable conditions in the completion of its outside development the egg cyst is ready to infect another suitable host, or to re-infect the same animal.

(To be continued next week).

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

# BREEDERS' SPECIALITIES.

## ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

ROUGHTON via NORWICH.

## E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S. and N.U.P.S.

Breeder of the Highest Class Pedigree Utility Poultry.

"HEASELANDS," HAYWARDS HEATH, SUSSEX.

Phone—Haywards Heath. 92

White Leghorns. Light Sussex.  
White Wyandottes. Mandels. Black.  
Rhode Island Reds. S.C. Black Leghorns.

## MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-nested Utility Poultry.

R.I. Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

## F. J. HOUGHTON,

IVANHOE POULTRY FARM, FRITH END,  
Near FARNHAM.

F. J. HOUGHTON wishes to point out that he is unable to fulfil any more orders owing to the Extension of his Farm this season. But asks prospective customers to place their orders Now for White Leghorn Sittings, Day-Olds, and Pullets for next season, and thus avoid disappointment.

## Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.

NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good winter layers kept for breeding.

## IF IT IS ADVERTISED IN

"EGGS"

You can depend on it.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."

## WHITE WYANDOTTES.

L. WILLIAMS,  
Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

## PEDIGREE WHITE LEGHORNS ONLY.

WALTER PROCTOR,

Hales Hill Road White Leghorn Farm,  
HEYWOOD, LANCS.

200 1920 and 1921 hatched Birds, laying:  
7s. 10s. 6d. and 12s. 6d. each.

Catalogue Free.

## F. C. TOMLINSON, M.S.P.B.A.,

Knott Hall Poultry Farm, Helpingsham,  
Sleaford.

Breeder of High-Class Utility Stock.

White Wyandottes, Anconas,  
White Leghorns, Rhode I. Reds,  
and White Runner Ducks.

Sittings from 7s. 6d. Day-Olds from 15s.  
Mating List Free.

## MAJOR E. P. WIDDICOMBE.

S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility Poultry.

White Leghorns, White Wyandottes, Rhode Island Reds, Light Sussex, Australian Black Orpingtons, Indian Runner Ducks. Orders for Eggs and Day-Old Chicks now being booked.

SNIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

## Coaley Poultry Farm, GLOUCESTERSHIRE.

COALEY FAWN DUCKS still leading for 7th month at Bentley. Eggs and Ducklings. Pullets, Cockerels, Stock Birds.

White Wyandottes, Buff Orpingtons,  
White Leghorns, Light Sussex,  
Rhode Island Reds, Black Leghorns.

E. BROOKE WRATTEN  
(Successor to Miss Edwards.)

## HOLMES and HOLMES,

S.P.B.A., N.U.P.S., L.B.P.S.,

T.A. FOXDELL, CHALFONT, ST. PETER'S.  
Breeders of High-Class Pedigree Stock.

White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds,  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.

Telephone: Chalfont St. Giles 54.

EVERY MEMBER OF THE

S.P.B.A.

SHOULD TAKE ONE OF

THESE SPACES.

## WHITE LEGHORN FARM, WOODMAN-COTT, MICHELDEVER, HANTS.

Offers W. Leghorn Yearling, at 10/6 Two-Year-Olds at 5/6. A limited number of March and April Hatched Pullets. Satisfaction and a Clean Bill of Health guaranteed.

Bankers: Messrs. Barclay and Co., Ltd., Basingstoke.

A. F. C. HOLDAWAY.

## R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinchurst Poultry Farm,

Headley, Hants.

White Leghorns, White Wyandottes, and Light Sussex.

Eggs and Day-old Chicks.

Cockerels, Pullets and Breeding Pens.

Enquiries Invited.

Stock Birds, Day-old Chicks, Hatching Eggs, etc. High-Class Utility Stock.

White Wyandottes, Light Sussex.

Croad Langshans, R.I. Reds.

White Leghorns, Black Leghorns.

White Runner Ducks.

H. W. HONEY,

S.P.B.A., N.U.P.S., P.C., Etc.

ALTON, HANTS.

Manager, Tottenham Laying Test.

Hon. Sec., Alton and District U.P.S.

## K: E. FIELD-HART

### WHITE LEGHORNS

Breeding Hens for Sale in Sept.

THE LIMBERLOST,  
HEATHFIELD, SUSSEX.

## Mrs. HARRY KENT,

Stanbridge Grange, Staplefield, Sussex.

Station: Hayward's Heath.

Telephone: 23 Handcross.

Exhibition and Pure-bred Trap-Nested Utility Poultry.

LIGHT SUSSEX.

WHITE LEGHORNS.

BLACK LEGHORNS.

Speciality.—Three Months' Old Pullets from 15s.

Illustrated Catalogue Post Free.

MISS ARGLES, N.U.P.S., B.C.

Pullets and Cockerels bred from my famous

White Wyandottes.

Twice top score, one third in four years in

All Ireland Laying Competition.

White Leghorns, Miss Edwards' splendid

laying strain.

From 10/-, according to age and pen.

ANSTAY POULTRY FARM,  
ALTON, HANTS.

## ONE OF THESE SPACES COSTS:

13 weeks, 5s. 6d. per insertion

26 " 5s. 0d. " "

52 " 4s. 6d. " "

(Not less than 13 accepted).



## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.

**DAY-OLD CHICKS** ... 1s. extra.

**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	
6 " " "	4
9 " " "	6
13 " " "	8

### FOR SALE. PULLETS.

R.I.R. Pullets, 1922, March hatched, 12s. 6d. each (Golden's), WHITE LEGHORN Pullets, 1922, April hatched, 12s. 6d. each (Barron's).—Manager, "Broadwater," Framlingham.

Three months old.—R.I.R. PULLETS, Studd's National Winning Strain, from trap-nested hens, records 200-280; mated 281-299; price 10s. 6d. each. Also February and March hatched Cockerels; same strain; from 250-281 record hens; from one guinea.—Miss D. Hasler, Little House, Frinton-on-Sea.

12 SPECKLED SUSSEX Pullets, hatched January, 1922; laying; Walmsley sire; 15s. each. Eight guineas lot. Carriage paid.—Lunn, Ottery St. Mary.

Yearling, BLACK, BROWN LEGHORN Pullets; 6s. 6d. each.—Jasmine, Woodberry Grove, North Finchley.

### 1922 PULLETS.

Three WHITE WYANDOTTES, hatched February 4th; cam's; £1 each. Also limited number of WHITE LEGHORN (Barron-Metcalfe); February, March, April; 17s. 6d., 15s., and 12s. 6d. each. All from trap-nested L2 stock.—S. Lawton, Nickhouse Farm, Mirfield.

### WATLINGTON POULTRY FARM, OXON.

50 Early April-hatched 1922, WHITE ORPINGTON Pullets; 8s. each; in lots of 25; 7s. 6d. each. Carriage paid.

### PULLETS LAYING NOW.

R.I. REDS (Boucher-Crowley), W. LEGHORNS (Cam). All from trap-nested L2 stock; price £1 1s. each.—Mrs. Simpson, S.P.B.A., The Cedars, Sunbury, Middlesex.

BUFF ROCK Pullets, February and March hatched, 1922, from L2 birds (average 187 stock); price 16s. each.—Worters, Uplands, Rotherfield, Sussex.

For Sale. Eight March 10th, 1922, WYANDOTTE Pullets, very hardy; approval; £1 each, carriage paid.—Brooker, Paice Lane, Medstead, Hants.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

ADVERTISEMENTS must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16 by first post FRIDAY MORNINGS, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

R.I.R. PULLETS (Crowley, non-broody strain), February hatched; 12s. 6d. each. Also WHITE LEGHORNS, April hatched; high fecund strain; 10s. each.—Mrs. Arthur Hoare, Beenham Grange, Reading.

R.I.R. and W.L. PULLETS, 1922, February, March and April hatched; sires from Newman and Norwood No. 1 pen; from 10s. 6d. to 15s., according to age. Approval.—Wrist, Hemel Hempstead.

### HENS.

150 WHITE LEGHORNS (1921), also 100 R.I.R.'s (1921); 10s. each. Room wanted for young stock. Carriage paid on 20.—Gorton, Kynance Egg Farm, Compton, Winchester.

Stock Birds, 1920 and 21, WHITE LEGHORN and R.I.B. Hens; must be cleared for room for young stock, at from 5s. to 10s., according to age and records. Trap-nested and carefully culled for stamina, 12 birds or over, carriage paid.—Parsons and Sons, Ashmead Poultry Farm, Ash, Surrey.

20 Barron WHITE LEGHORN L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted. 12 Wilson ANCONAS, L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted.—Smith, Normanton Grange, Plumtree, Notts.

### HENS (1921 HATCHED).

WHITE LEGHORNS (T. Barron), BLACK LEGHORNS (Upjohn - Measures), R.I.R.'s (Golden); splendid birds; 10s. each. Approval.—Milestone Egg Farm, Patixbourne, Camberley.

### COCKS AND COCKERELS.

R.I.B. Cockerels, February - March hatched; dams (Boucher); records 212-258, W.R., 45-65; sires, sons of Mr. Boucher's famous hens, 37 and 48; from 12s. 6d. now. Also booked for autumn delivery. White Silkie Eggs and Stock Birds.—Miss Simpson, Calibae, Killearn, by Glasgow.

Finest Pedigree WHITE LEGHORNS. Three 1921 Cocks, Tom Barron direct, dam 250, 12s. 6d. each. Also 1922 March-April hatched Cockerels, pure Barron, sired by 250, tested cock, 7s. 6d., 5s. each, carriage paid on three.—Burnett, City Gardens, Bainsford, Falkirk.

WHITE LEGHORN Cockerels, April, 1922, Barron-Padman; good pedigree; 6s. 6d. each. Approval.—Particulars, Green, M. Ewers Road, Rotherham.

Few Selected R.I.R. Single-Comb, also ANCONA, rose-comb; March hatched Cockerels, from noted laying strains; 10s. 6d. each.—Johnson, Redbank, Bamford, near Sheffield.

### BLACK LEGHORNS.

Six very handsome March hatched Cockerels; splendid stock birds; 15s. each. Particulars on application.—Macdonald, Harfield Hambledon, Hants.

WHITE WYANDOTTE Cockerels, 1922, February hatched, from daughters of Cam's Special Pen; 25s. each. Approval.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.

Cockerels, hatched May 2nd, bred from Hanson's pens, mated to Padman's Cockerels, bred from dams with 250-egg records. Price 5s. each.—Apply, A. Sisson, The Grange, Woolstone, near Cheltenham.

### RIVERSIDE POULTRY FARM, DORING, OXON.

WHITE WYANDOTTES, Cam - Barron, Carlton-Williams' strain. A few splendid Cockerels; March hatched, for sale; 5s. each.

WHITE WYANDOTTE Cockerels, F. Snowden's January, 1922, dam's records 252-262; 30. BLACK LEGHORN Cockerels, Gwynne-Evans' and Moore's, April, 1922; high record pens; 7s. 6d.—Capt. Stevenson, M.S.P.B.A., Wardley Poultry Farm, Liphook.

Large Eggs have placed my Wyandotte 1st in Section N.P.C. Laying Test. A few Stock Cockerels from same pen for sale.—Capt. Heseltine, Ropley.

Cockerels. R.I.R., WHITE WYANDOTTE, WHITE LEGHORN, February and March hatched; 12s. 6d., 15s.—Harnes, Moneyland, Crawley.

## J. H. COOPER'S BUFF ROCKS.

Second-to-none strain, line bred, 15 years here. This strain entered by a customer won Harper-Adams' Gold and Bronze Medals, and proof that I still sell the best another customer has again at Harper-Adams' over five winter months, beat all Rocks, R.I. Reds, and Sussex. 1922 Cockerels for sale. Try one. His progeny will assimilate bran and thrive. — Reliance Poultry Farm, Bayleigh.

## APPLIANCES.

**FITTINGS** and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

**SPECIAL OFFER.** — Automatic Water Fountains for poultry and pigeons,  $\frac{1}{2}$  gal., 2s. 3d., postage 9d.; 6 for 17s., postage free; quart sizes, 2s., postage 6d.—H. Cooper, 4, Heath Street, Tamworth.

## GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s.; 4 cwt., 26s. 6d. Quantity of slightly soiled, 1 cwt. at 5s. 6d. All have hinged lids. All carriage paid. — Hudson, Sheet Metal Works, Patricroft, Lanes.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Best galvanised. British only; stamp list — Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

Good Opportunity for anyone starting Poultry Keeping, four 12 x 6 Semi-Intensive Houses; one 6 x 4 House; one Hearson 60-egg, and one Phipps' 100-egg Incubator; Foster Mothers, Egg Boxes, Wire Netting, Stakes, etc. — Further particulars from Jerome, The Hermitage, Hurn, Hants, or call any time.

Hearson **FOSTER MOTHER**, £5; 50 chick size; very good condition.—Mrs. Poston, Whitehill, Bordon, Hants.

**B.M. DRY MASH HOPPER**, good condition; £2 (present price 6s.); parting with above owing to fewer birds being kept.—Box 120, "Eggs," 94, Farncombe Street, London, S.E.16.

## EGG BOXES.

24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.

**WORSAM and ABBOTT**,  
Pycroft House, Chertsey.

## BREEDING PEN.

Major A. G. LEE offers a few **WYANDOTTE** and **LEGHORN** Breeding Pens at reasonable prices. 1922 Pullets from these pens are very forward and promising. — "Norwood Hayes," Iwer, Bucks.

## DUCKS AND DRAKES.

Wilson's **RUNNER** Ducks and **ANCONA** Fowls, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

Nine **RUNNER** and **BUFF ORPINGTON** Ducks, bought from Cook's last year, all laying; 10s. each.—Mrs. Bell, The Mead, Ashstead, Surrey.

**FAWN** and **WHITE RUNNERS**. — Miss Cavanagh's pen 42 takes highest position. 7th month Bentley with 803 first-grade eggs. March drakelets, brothers to competitors, 21s. each. Aylesbury Ducks, February, 12s. 6d. White Runner Drakes, 10s. 6d. — Kimmage Grove Poultry Farm, Terenure, Dublin.

30 **WHITE RUNNER** Ducks (1921), bred from breeding pen purchased from E. H. Taylor; 7s. each.—Gorton, Kynance Egg Farm, Compton, Winchester.

## INDIAN RUNNERS.

Five Pedigree **FAWN** and **WHITE** Drakes; grand stock birds; 21s. each. Pedigree on application.—Macdonald, Harfield, Hambleton, Hants.

**RYE** and **SON**, "Hazelcroft," Shoreham-by-Sea, Specialist, Breeders' Pedigree Fawn and White Runners, invite orders Stock Drakes from their wonderful strain which produced duck with record 370 eggs in year. From one guinea each.

**FAWN** and **WHITE RUNNER** Duck 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

## GOSLINGS.

Very Fine Full-grown **GOSLINGS**; 15s.; from a good white, laid 56 eggs last year, 48 this; carriage paid.—S. F. Skipwith, Loversal, Doncaster.

## PIGEONS.

**UTILITY PIGEONS**, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Colehill, Wimborne.

## RABBITS.

Lester Spurgeon, Wistler's Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for sale.

## KITTENS.

Pedigree **BLUE PERSIAN KITTENS**. 1st prize, Kensington Cat Show, sire Buzz-Buzz; three months old; beautiful coats, orange eyes, house trained. Males, £3 3s., Female, £2 2s.—Jay, Charlton Down House, Andover.

## FOODS.

**MAIZE GLUTEN FEED** offered at 10s. 3d. per cwt., on rail Ash, or 12s. 6d. cwt. on L.S.W. Railway or S.E. and C.R., under 50 miles, carriage paid; open for three weeks only. Cash, orders.—Parsons and Sons, Corn Merchants, Ash.

## OYSTER SHELL.

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cackle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

## SMASHING REDUCTIONS.

Milko Laying Meal, £15 10s. per ton (carriage paid on 2 ton lots) if ordering in lots of not less than  $\frac{1}{2}$  ton at a time. Milko Laying Meal is based on milk and balanced by experts. This food is used on some of the largest poultry farms in the country. Once used always used. Unequalled as an egg-producer. Get a supply now. Sample cwt. 23s., carriage paid.—Milko Food Company, Fleet House, Fleet Street, London, E.C.4.

## MISCELLANEOUS.

**SUSSEX FOWLS**.—Mrs. M. A. Grant, Westlands, Horley, Breeder, Exhibitor, Exporter all varieties. Winners at all principal shows. Exhibition with best utility qualities a speciality.

**REV. SEYMOUR SHAW**, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes and Runner Ducks (all colours). Records to 269. Approval.

To make room for young stock.—1921 Unmated Pullets, **WHITE LEGHORN**, Frost's strain; from 10s. 6d. each, in full lay. 1920 Barron-Metcalf **WHITE LEGHORN** Hens, 28s strain, at 7s. each, in full lay. 1921 **WHITE WYANDOTTES**, unmated, from 9s. each, in full lay. 1922 Cockerels, Frost's American **WHITE LEGHORNS**, from 3s. 6d. each.—Miss Keith, Pedigree Utility Poultry Farm, Tangley, near Andover, Hants.

## PADMAN'S PEDIGREE

**WHITE LEGHORN** Cockerels, April hatched, from two-year-old hens, with records 210 to 249, W.R. up to 60, sired by son of 270-egg hen, by son of 281-egg hen. All toe-punched to individual hens. Personally trap-nested, and all records guaranteed. Hens of good size, and all eggs well over 20zs. Send for details of prices, pedigree, and punchings, and see that you get what you order. From 7s. 6d.—Will Robinson, M.S.P.B.A., 50, Main Road, Denholme, Bradford.

**PULLETS**, March and April hatched, from 12s. 6d. each. **LEGHORNS** (Black, White and Brown); **WHITE WYANDOTTES**, **REDS**, **INDIAN RUNNER** and **AYLESBURY** Ducks, same age.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

## 1922 WHITE LEGHORN

Pullets and Cockerels, from trap-nested stock; February hatched; Pullets, 15s.; Cockerels, 10s. — Dickinson, Llandefaelog, Brecon.

Free Delivery.—"Eggs and the Intensive World," 4s. 4d.; "The Feathered World," 4s. 4d.; "Meat Trades Journal," 4s. 4d.; "Poultry Keeping," 2s. 2d.—Jackson, Berry End, Knaresborough.

Six A. M. B. **TURKEY CHICKS**, 10 weeks old; 10s. each, or would Exchange for White Leghorn 1921 Hens or Runner Ducks. —Abbott, South End, Hogsthorpe, Alford, Lincs.

### MORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Maconchy, Edmore, Hook, Hants.

50 ANCONA Cockerels, 50 Pullets (P. L. Johnston and Charles Lawson strain); Cockerels, 12s. 6d. separately, £25 lot. Pullets 15s. separately, £30 lot. Also 50 BUFF ROCK Cockerels and 50 Pullets (J. H. Gibbons' strain); Cockerels separately 10s. 6d., £22 lot; Pullets 12s. 6d., or £27 lot. February-March hatched; all beautiful condition birds.—Mrs. Poston, Whitehill, Bordon, Hants.

F. JOERGENSEN, Specialist and Largest Breeder of Crows. Stock Birds, Pullets and Chicks. — Kennylands, Emmer Green, Reading.

B.O. DRAKES (Street-Porter strain), from white egg duck that laid 129 eggs in 132 days. WHITE LA BRESSE Cockerels, from L2 dams that laid 20z. eggs their second week as pullets; 25s. each.—Lieut.-Colonel R. S. Weston, Steeple Ashton, Trowbridge, Wilts.

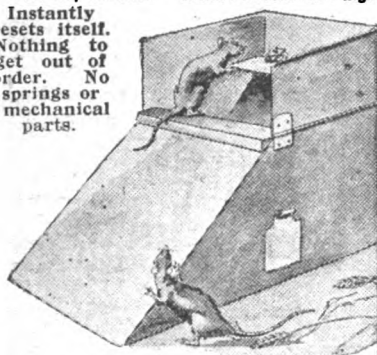
### Hastings Sheet Metal and Poultry Appliance Works,

HUGHENDEN ROAD, HASTINGS.

### THE EVER-READY RAT-TRAP.

Best Trap invented. Catches Numbers in a Night.

Instantly resets itself. Nothing to get out of order. No springs or mechanical parts.



No adjustments. Simple and effective. For inside and outside use. Made of strong Galvanised Iron. Patent applied for 8490/22. Free on Rail. 24/- each. Cash with order.

Makers of all Poultry Appliances.

Write for our Price List.

Awarded Certificate of Merit, and Highly Commended at Sussex Agricultural Show.



### The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN,

The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

### APARTMENTS.

BOARD - RESIDENCE, Poultry Farm, near sea; double room; 27s. 6d. each.—Box 123, "Eggs," 94, Farncombe Street, London, S.E.16.

### HOUSE.

For Sale, near Maidstone, Country House, three reception, five - six bedrooms, usual offices, indoor sanitation, large garden, meadow two acres, two-roomed bungalow in garden, stables, coach-house, large fowl house. Free range for poultry over adjacent orchard.—For full particulars, Box 112, "Eggs," 94, Farncombe Street, London, S.E.16.

### PUPILS.

VACANCY, on 1,000 head Poultry and Pig Farm, for One or Two Pupils, terms on application.—F. Bird, Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Inventor and Maker of Mid-Essex Trap-Nest Front. Agent for Planok Cold Brooder.

### PARTNERSHIP.

WANTED, Working Partnership, in a sound and up-to-date Commercial Egg Farm. Capital available £1,000.—Box 118, "Eggs," 94, Farncombe Street, London, S.E.16.

### WANTED.

WANTED EGGS, 100 dozen weekly, unfertile; not more than four days old. Wanted, for high-class trade.—E. Lindley, Woodhouse Mill, Sheffield.

### W. MASON, M.S.P.B.A., P.C.,

Littledale Poultry Farm, Halam,

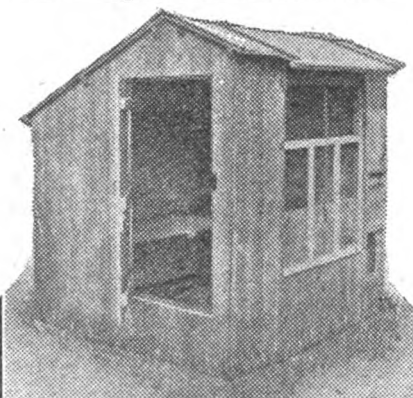
Near SOUTHWELL, NOTTS.,

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks various ages in White Leghorns, White Orpingtons, White Wyandottes, Light Sussex, Anconas (s.c.), R.I.R. (s.c.)

Inspection Invited. Cash or Deposit.

### The 'QUENIBOROUGH'



A most Useful Poultry House, well and substantially built. Complete. No Extras.

5ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6

8ft. x 6ft. x 6ft., £7/0/0. Floor 21/-.

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

W. & T. MARKHAM,  
DEPT A., QUENIBOROUGH, LEICS.

### PULLETS.

February-March hatched, R.I.R. Pullets.—Full particulars, Monks Farm, Oakwood Hill, Surrey.

Wanted, 100 April 1922 hatched WHITE LEGHORN Pullets, from guaranteed healthy stock. State strain and price for the lot; carriage paid; approval.—Box 122, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, Pure 1922 Pullets, Reds, Wyandottes, Anconas, Leghorns.—Lumb, Fairfield, Hebden Bridge.

Wanted, SILVER CAMPINE Cockerels, from trap-nested hens.—Worters, Uplands, Rotherfield, Sussex.

### POULTRY FARM WANTED.

Buy or Rent, Going Concern, or suitable House and Land. Partnership considered; capital and experience available. — Full particulars, Box 119, "Eggs," 94, Farncombe Street, London, S.E.16.

### SITUATIONS WANTED.

POST Required on Poultry Farm, any capacity; experienced all branches; practical knowledge carpentry; own tools; business experience in corn trade; hard-working and very keen.—Box 121, "Eggs," 94, Farncombe Street, London, S.E.16.

ADVERTISER, ex-Service, slightly disabled, single, 36, some experience poultry farming, seeks Situation; small wage, board, lodgings.—Geo. Cooper, 81, Park Road, Lowestoft.

### JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris, Newbury,

Once again Offers for Disposal  
EGGS AND STOCK BIRDS  
from his

PEDIGREE LAYING STOCK.

SPLENDID SELECTION OF COCKERELS  
and 1921 HATCHED HENS.

in following breeds at 15/- each.

not approved in three days birds will be exchanged or cash refunded.

Croad Langshans, Sal. Faverolle, Houdan, White Wyandotte, Silver Campine, Ancona, Light and Speckled Sussex, R.I. Red, R.C. and S.C. Black, White and Brown Leghorn, Buff and White Orpington.

Buff and Barred Rocks and Minorcas, Eggs, 6/- per doz.; 45/- per 100. Guaranteed 90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-Campbell Ducks, Eggs 8/- doz. Drakes, 15/- each.

White Runner and Fawn Runner Ducks. Eggs, 8/- doz. Drakes 10/- each. All Goods carriage paid to any part of the British Isles.

LIST FREE.

### BUY STOCK COCKERELS NOW.

White 'Dottes, 7/6 each; White and Black Leghorns and S.C. Anconas, 5/6.

March-April Hatched, from L2 Stock.

Well Developed. Approval willingly Carriage Paid.

### 1921 PULLETS.

White and Black Leghorns and S.C. Anconas.

Proved L2 Birds, at the very low price of 6/- each.

Will make Grand Breeders Next Season. Carriage Paid on Six. All Crates to be returned.

MARKHAM, SONS and ALLOTT, S.P.B.A.,  
QUENIBOROUGH, near LEICESTER.

**F. Bostock Smith**  
Pedigree Utility Poultry

**Every Bird with a definite Record.**

Write for Free Booklet "Profitable Poultry."

"Heaslands," Hayward's Heath, Sussex, England.

## YOUR PROFITS

DEPEND UPON YOUR  
BUYING THE BEST  
FOOD AT A REASONABLE

### PRICE

OTHERS SUCCEED AND ARE  
DELIGHTED WITH MY SERVICE  
Why not YOU?

The following are of Tip-Top Quality.

	1 cwt.	5 cwt.
	s. d.	s. d.
Sussex Ground Oats	23 0	22 0
Maize Gluten Feed or Germ Meal	15 6	15 0
Pure White Fish Meal	23 0	22 3
Laying Meal	19 0	18 3
Biscuit Meal	30 0	29 0
Biscuit Powder	25 0	24 3
Limestone Grit	6 6	6 3
Clover Meal	25 0	24 0
Dried Yeast	19 6	18 0

Order 5 cwt. Lots, and Save Shillings.

Carriage Paid England and Wales, or  
Nearest Port.

CASH WITH ORDER. BAGS FREE.

**H. WILLOUGHBY,  
HINCKLEY.**

### WANTED.

Pedigree Light Sussex 1921  
Cock—Rothschild strain.

**BEACH, Linkenholt Poultry Farm,  
COPTHORNE, CRAWLEY, SUSSEX.**

## AT LAST! The Egg Box everybody has been looking for.

The "INSURANCE" Egg Box (Patent Applied for) made especially for the post, of three-ply wood, in two sizes only, for 12 and 24 eggs. For efficiency, the CHEAPEST, SAFEST, SMALLEST, and LIGHTEST box on the Market.

The Eggs cannot be broken.

Prices.	per Box.	12 Boxes.
For 12 Eggs	2/-	23/-
For 24 Eggs	3/6	40/-

Reductions for Larger Quantities.

Post. box for 12 eggs, 9d. for 2; 1/- for 5. Post. box for 24 eggs, 9d. for 1; 1/- for 2. Larger numbers, carriage forward by rail. Terms: Cash (to include postage) with order.

The "INSURANCE" Special Egg Box (Patent applied for) for valuable sittings. No packing required, and it is impossible to either break or jar the Eggs. The Box will last for years. Price, 12/6, post free, 13/9.

Extract from a letter from one of the most prominent Poultry Farmers in the Country:—"I consider both types (of boxes) will serve their purpose admirably, and think you have got hold of a real good thing in egg boxes. I have given them both a thorough test, and failed to break an egg inside them."

Agents Wanted.

**THE "INSURANCE" PACKING CO., LTD.,**

(Dept. E.) 82, WESTBOURNE GROVE, LONDON, W.2.

## THE AUTO- SPRING NEST FRONT

Prov. Patent.

Set instantly with one hand, for trapping or fixed open. Adjustable for any breed. Clear entrance, and quiet, reliable action. Sample, 4s. 3d.; 3 for 11s. 6d.; 12 for 42s. All Carriage Paid. Messrs. SCATCHARD and YOUNG, Warren P.F., Birkdale, Southport.

PURE SWEET STERILISED BLOOD.

**RENTOX (Regd.)**

7 lb. bag sent post free for 1s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,  
BORDESLEY STREET,  
BIRMINGHAM.**

If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
The Largest British  
Mutual Life Office.

**AUSTRALIAN MUTUAL PROVIDENT SOCIETY.**

(A.M.P.)  
Established 1849.

ASSETS ... £47,000,000  
ANNUAL INCOME ... £6,750,000

NEW ORDINARY BUSINESS for 1921 ... £9,555,000  
TOTAL ORDINARY ASSURANCES IN FORCE ... £137,000,000

PURELY MUTUAL.

ALL PROFITS BELONG TO POLICY HOLDERS.

EVERY YEAR A BONUS YEAR.

Cash Surplus (Ord. Dept.) Divisible, 1921, £1,400,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War  
London Office: 73-76, KING WILLIAM STREET, E.C.4. W. C. FISHER, Manager for the United Kingdom.



## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 208, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 281, 3rd May).

**DRIED BUTTERMILK - 20/- per cwt.**

We are also able to offer a limited quantity of

### SWEETENED CONDENSED MILK

(Invaluable for Poultry, Pigs, Calves, etc.) at the low price of

**8/- per Case (48 fourteen oz. tins in a case).**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**GARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

## WIRE NETTING.

### LOOK AT THESE PRICES.

BEST QUALITY GALVANISED. IN ROLLS OF 50 YARDS.



72in. x 3in. 19/1	72in. x 2in. 26/4	72in. x 1 1/2in. 34/8	72in. x 1in. 45/-
60in. x 3in. 15/11	60in. x 2in. 21/11	60in. x 1 1/2in. 29/-	48in. x 1in. 30/-
48in. x 3in. 12/9	48in. x 2in. 17/7	48in. x 1 1/2in. 23/2	36in. x 1in. 22/6
36in. x 3in. 9/7	36in. x 2in. 13/2	36in. x 1 1/2in. 17/4	24in. x 1in. 15/10
24in. x 3in. 6/11	24in. x 2in. 9/8	24in. x 1 1/2in. 12/6	12in. x 1in. 8/8

### ROOFING FELT.—Special Prices.

- No. 1. Sanded, 45ft. x 3ft., 5/6 per roll.  
No. 3. Pure Bitumen, 36ft. x 3ft., 6/3 per roll.  
No. 5. Pure Bitumen, 45ft. x 3ft., 7/9 per roll.  
All above F.O.R.

### SOLID ENGLISH OAK STAKES, 2 x 1 1/2in.

5ft. 10/6, 6ft. 13/6, 7ft. 14/9, 7 1/2ft. 15/9 per doz.  
Send for Complete List of Appliances, etc.

**SMITH & ELLIS (Dept. 51), 11, Little Britain, London, E.C. 1.**

## W. A. BAINBRIDGE,

Keyneston Manor Poultry Farm,

BLANDFORD.

White Wyandottes. Rhode Island Reds (S.c.)

Light Sussex.

Sittings of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
from large egg, high record L2 Hens.



**Biscuit Meal—**  
plays a big part in  
the Feeding Menu  
of England's Most  
Successful Poultry  
Farmers.

Mr. R. H. BERNEY, M.A.,  
of Harpenden, writes:—"You  
Biscuit Meal forms the basis  
of all mashes from the first  
to the last day in the lives of my  
birds. Diarrhoea is almost un-  
known here. I cannot imagine  
a lower mortality or more  
vigorous chicks than at the  
farm."

Mr. SIMON HUNTER says:—"In all  
forty years at chicken rearing I have  
found anything that can take the place of  
Biscuit Meal for rearing strong, vigorous  
chicks."

**SPRATT'S**  
**Poultry Meal**

And SPRATT'S CHICKEN (BISCUIT) MEAL  
are obtainable from all dealers in sacks  
bags.

**SPRATT'S PATENT Limited**  
24, Fenchurch Street, E.C.

## You order to-day, WE DESPATCH TO-MORROW.

Foods exactly as fed to 3,000 Head of Stock on our own farm.

This is essentially a guarantee you get foods, proved by practical experience over many years.

	cwt.	s. d.
V.C. Chick Feed No. 1	25	0
V.C. Chick Feed No. 2	24	0
V.C. Rearing Meal	25	0
(Mix with 1-3rd Midds. and Bran)		
V.C. Laying Meal	22	6
(Mix with 1/2 Midds. and Bran)		
V.C. Laying Dry Mash	18	0

ALL CARRIAGE PAID.

## "V.C. NOSHELLAC" LIMESTONE GRIT.

(Now practically free from dust). Contains large proportions of essential phosphates necessary for welfare of both bird and egg.

ONCE TRIED. ALWAYS USED.

The Cheapest of all Grits and the Best.

(No oyster shell or flint required).

1 cwt. Bags	3s. 6d.
10 cwt. Bags	32s. 6d.
20 cwt. Bags	65s. 6d.
40 cwt. Bags	129s. 6d.

Free on Rail, Maidstone.

Ask your dealer to stock it.

**VENN CARR,**  
Dept. 9,  
Maidstone Poultry Farm,  
MAIDSTONE.

A Free Booklet, "How to Make Your Fowls Pay?" to each Customer, or 1s., post free.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



For Twenty Years  
**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, every time. His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER,**  
DENNY, SCOTLAND.

We are EXPERTS in all kinds of  
GRAIN and MEAL for POULTRY  
FEEDING and for the PRODUC-  
TION OF EGGS.

	per cwt.	s. d.
CHAMPION MIXTURE	22	0
A.1 MIXTURE (with or without X.B. Maize)	20	0
X.B. MIXTURE	18	0
X. MIXTURE	17	0
CLIPPED OATS (Heavy)	20	0
CHAMPION LAYING MEAL	21	0
CHAMPION DRY MASH	21	0
CHAMPION CHICK FOOD, No. 1	27	0
CHAMPION CHICK FOOD, No. 2	27	0
CHAMPION DRY CHICK MASH	23	0
CHAMPION PULLETT MIXTURE	22	0
SPECIAL KIBBLED MAIZE	18	0

DISCOUNT:—6d. per cwt. for 5 cwt.  
and over; 1s. per cwt. for 10 cwt. and  
over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and  
SUBURBS DAILY in quantities of 7lbs.  
and upwards to meet the REQUIRE-  
MENTS OF ALL.

NO DUST OR WASTE. Mixed and Well  
Cleaned by Special Machinery.

Samples and Price Lists free on application to  
**WILLIAM BRINKLER & SONS, Ltd.**  
Pigeon & Poultry Food Dept.,  
(5) CLAPHAM GRANARIES, LONDON, S.W.4  
Telephone: BATTERSEA 211.

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.35
*Including Sand	.05

### OSSIFIED YEAST.

Analysis.

	per cent.
Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
†Ash	21.04
	100.00

* Containing Nitrogen	per cent. 6.36
† " Phosphate of Lime	18.88
" Sand and Silicious matter	0.33
Total Food Units	150

### PRICES:—

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

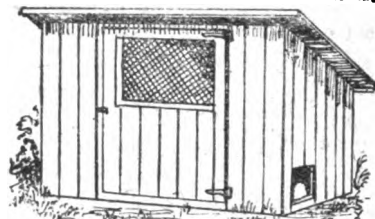
Carriage Paid England and Wales.  
Cash with Order.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

## SPECIAL ANNOUNCEMENT!

At the suggestion of Mr. E. Bostock Smith, who has favoured us with several orders, we have decided to place before the readers of "Eggs" our many and popular lines of Poultry Houses, Appliances, Sheds, and Portable Buildings, also Wire Netting, Timber, etc.

Our Weekly Advertisements will be worth Watching. The Special Lines for this Week are the following—



### THE "VALUE" COCKEREL BOX.

3ft. 6in. long, 2ft. 4in. wide, 2ft. 6in. high. Strongly made of BEST QUALITY pin. Matching, on strong framing, in complete sections. Hinged Door, Wired Window, Sliding Trap Door, complete with Bolts and Screws for erecting.

Price, 21/6. Carriage Paid to your Station. A most useful Small House for All-the-Year-Round use. For rearing a brood of Chicks or Ducklings. For a Cockerel Box for one or two birds in the autumn; or for a pen of Bantams. It cannot be excelled at the price. Being Portable, it is easily moved.

Cresote, Best Quality Nut Brown, 55/- per 40 Gall Cask.  
"Lasto" Wood Preservative, Nothing Better, 40/- per 40 Gall Cask. Free on Rail Redhill.

Write now for our Catalogue.

**THE SURREY VALUE CO.,**  
GARLANDS ROAD, REDHILL. 'Phone 290.

## The House for QUALITY

Buying your foods from the house where QUALITY is a first concern, is THE ONE WAY to secure the results you desire.

## S. S. Chick Feed

—the Sweet Dry Feed obtainable—furnishes a special example of the wonderful results obtainable from QUALITY FOOD. Made to the Formula of the Rev. Seymour Shaw, it is a food of the highest nutritive value, producing CONSISTENT GOOD RESULTS.

### ANALYSIS:

FOOD UNITS: 106.  
NUTRITIVE RATIO: 1 to 7.  
FIBRE ONLY: 2½ per cent.

Price 21/- per cwt.

Carriage Paid to Station, and Sacks Free.

Make it a point to test this QUALITY Feed to-day. Order a sample bag through  
Secretary, S.P.B.A., and get your discount.

**THE SERVICE FOOD COMPANY,**

The House for Quality,

VICTORIA MILLS, GRIMSBY.

**TWO SPECIAL LINES.**

MAIZE GERM MEAL ... £9 per ton.  
 FLAKED MAIZE ... £11 per ton.  
 Bags Free. F.O.R. Bristol. Cash with order.

And these other Goods, as you all know, are unbeatable for Price AND Quality.

	per cwt.
Kibbled Maize	12 0
Wheat	16 0
Clipped and Screened Oats	14 0
Barley Meal	12 0
Maize Meal	10 6
Sharps (Splendid Quality)	11 6
Broad Bran	9 6
Middlings	12 0
Bean Meal	14 0
Maize Germ Meal	12 0
Maize Gluten Feed	12 0
Poultry Mash (Newman)	15 0
Chick Mash (with Bran)	14 0
Chick Mash (without Bran)	18 0
Flaked Maize	14 0
Biscuit Meal (Graded)	26 0
Biscuit Powder	20 0
Oyster Shell	8 0
Limestone Grit	3 0

Bags free, F.O.R.

Also Clover Meal, Fish or Meat Meals, "Bycolla," Maize Flour, Duck Meal, Dried Yeast, Peat Moss, Charcoal, Izal Powder and Fluid, Wire Netting, Felts, Drinking and Feeding Troughs, etc.

Write or 'Phone. 'Phone 51.

PLEASE NOTE.—We give a discount of 1/- per cwt. on ton lots, mixed or otherwise, and 6d. per cwt. discount on all orders received through the S.P.B.A. Our Limestone Grit is now practically free from dust.

**FRANK SHEARN & CO., LTD.,**  
**MIDSOMER, NORTON, SOM.**

**West Mersea Poultry Farm,**  
**ESSEX,**

Nr. COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.**

**Room Wanted for Young Stock.**

I have for sale a few of my Breeding Pens, comprising six two-year-old R.I.R. Hens, one R.I.R. Cockerel, February, 1921, hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old, one W. Leghorn Cockerel, February, 1921, hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 0d. per pen, carriage paid.

Also a few February, 1921, hatched W. Leghorn Cockerels and Pullets, and a few February, 1921, hatched R.I.R. Cockerels and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 0s. 0d. Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records, etc., with pleasure.

**The WORLD'S RECORD WYANDOTTE (Midland Test, 1920-1921)**  
 was reared on

## H. A. HUSSEY'S SUPER CHICK FOODS.

Mr. H. W. Honey, Alton, Hants (Breeder and Owner of Score-card Marvel, the remarkable White Wyandotte pullet, which laid 315 eggs in 11½ months, thus putting up a World's Record for W. Wyandottes and a British Record for all breeds), writes:—"I consider that good feeding is essential for successful chicken-rearing and always use the best procurable. . . . All my birds are brought to Maturity on your foods, etc. . . ."

H. A. Hussey's Super Chick Foods are made to a high standard of QUALITY. They contain just those ingredients which have PROVED THE BEST by long experience and tests. These Foods will enable YOU to rear all reparable chicks to robust maturity.

	cwt.	½-cwt.		cwt.
	s. d.	s. d.		s. d.
H.A.H. Super Chick Food	27 0	14 6	Record Laying Meal (for use with No. 2 for one month old)	24 0
No. 2 (for one month old)	23 0	12 6	H.A.H. Complete Mash	24 0
Large Chick Food	23 0	12 6	Dry Mash (T. Newman's Formula)	18 0
Chick - Rearing Meal "A" (First month)	25 0	13 6	Special Poultry Grain (Machine Cleaned)	21 0
Chick - Rearing Meal "B"	25 0	13 6	No. 2 Poultry Grain (Machine Cleaned)	14 0
Chick Dry Mash	25 0	13 6		

Carriage paid England and Wales. Sacks Free. Prompt dispatch. Samples, 1s. less 5 cwt. lots. Cash with order or deposit system. Special Quotations for Maize Germ Meal, Maize Gluten Meal, Oatmeal, etc., etc., on application, stating quantity required.

**HUSSEY BROS., Dept. E (H. A. HUSSEY, S.P.B.A., F.R.S.P.)**  
 515, Seven Sisters Road, TOTTENHAM, LONDON, N.

## Miss WIGRAM, ORDSALL, RETFORD.

Winner, First Prize and Silver Medal  
 Notts., Best Kept Poultry Yard  
 Competition.

**R.I.R. BLACK LEGHORN**  
**WHITE I.R. DUCKS.**

1921-1922 Birds for Sale.

Details on Application.

Only High Class Stock Kept.  
 All Birds Trap-Nested.

Our SPECIALITY is the making of MASHES, CHICK and POULTRY FEED. Customers' own requirements. We make with the best ingredients.

Newman's Chicks Mash: 13s. 6d. cwt.  
 Newman's Chick Feed: 10s. 6d. cwt.  
 Newman's Poultry Mash: 15s. 6d. cwt.

We supply everything required for Poultry Keeper. For example: Midds., cwt.; Broad Bran, 12s. 6d.; Ordinary 10s. 6d. etc.

Before purchasing elsewhere mail requirements to enable us to quote send Samples.

Bags Free and Free on Rail. Cash with order.

**DRAKARD & CO., Ltd.**

Corn Merchants,

PUBLIC HALL, "HADLEIGH," ESSEX.

## RATSTICKER DESTROYS RATS QUICKLY.

The non-poisonous varnish which causes natural death within a few minutes. Safe, certain, and continuous trap, recommended by Dr. Howarth, City of London Medical Officer.

Sole Manufacturers:  
**B. WINSTONE & SONS LTD.**  
 (Dept. W.)  
 100-101, Shoe Lane, London.  
 E.C.4.  
 (Obtainable from all Chemists.)



Full Instructions  
 with each Tin.

Small for Mice,  
 per 1/4 tin.

Medium for Rats,  
 per 2/3 tin.

Extra Large for  
 Rats,  
 per 3/3 tin.

Post Free.



August 2nd, 1922.

EGGS.

## IT'S ONLY COMMON-SENSE—



to pay a fair price for a Pedigree Bird—you can't get "something for nothing."

I have some gorgeous well-grown Stock—on free range, guaranteed bred and reared on this Farm.

**TOE-PUNCHED L2 COCKERELS.  
LIGHT SUSSEX.  
WHITE LEGHORNS.**

**1922-hatched—February, 25/- ; March, 20/- ;  
April, 15/- each.**

**WHITE RUNNER DRAKES } 6/- to 20/- each.  
KHAKI CAMPBELL        „ }**  
*Reduction on large orders. ALL sent carr. paid.*

Prices and Catalogue Free—

**Miss HARRISON BELL,**  
**WELWYN—HERTS.**

## ≡ "EGGS" ≡

can now be obtained from all Newsagents, and we suggest that anyone, who is not already a subscriber, requiring copies regularly, should fill up the following form and hand it to their Newsagent:—

To *M* .....

Please supply me with a copy of "Eggs" every week until this order is countermanded.

Name .....

Address .....

## NOTICE TO NEWSAGENTS.

If any difficulty is experienced in obtaining "EGGS," please write to the Editor, The Beeches, Rudgwick, Sussex, giving the name of your Wholesaler. Postage will be refunded and arrangements made for you to be supplied.

Copies can always be obtained from the following Wholesale Newsagents:—

Messrs. W. H. SMITH and SONS, Strand House, Portugal Street, W.C.2. Messrs. JOHN MENZIES and CO., LTD., Wholesale Agents, Glasgow.

Messrs. JOHN HEYWOOD, LTD., Wholesale Newsagents, Deansgate, Manchester, and St. Bride Street, London, E.C.

Messrs. HORACE MARSHALL and SON, Temple House, Temple Avenue, London, E.C.4.



**AMERICAN OYSTER SHELL,****Special offer.**

1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 6/2. Free on Rails, Liverpool. Cash with order.

**THE BRITISH AMERICAN SHELL GRIT CO.,**

Bank Chambers,  
222, MARSH LANE, BOOTLE, LIVERPOOL.

Phone: 696 Bootle.

Telegrams: Poultry, Liverpool.

**'UTILITY' POULTRY FOODS.**

PRICES (Reg. Trade Mark) DOWN.

**Special Offers to S.P.B.A.**

	per cwt. s. d.
200 bags Maize Gluten Meal	12 6
200 bags Fine Quality Fish Meal	15 0
200 bags Fine Ground Biscuit Meal	18 0
400 bags Best Sussex Ground Oats	15 0
1000 bags White Dairi Seed	11 0
200 bags Best Mixed Fowl Corn	12 0
200 bags Chicken Mixture	13 0
50 bags Granulated Charcoal	14 0
200 bags Canary Seed	18 0
100 bags Poultry or Chicken Rice	15 0
200 bags Clipped Heavy White Oats	12 0
500 bags American Red Wheat	14 0
500 bags Broken Wheat and Cockle Seed	10 0

F.O.B. Liverpool. Bags in. Cash Terms.

ARGYLE MILLS, Argyle Street, Liverpool.

Phone: 2506 Royal. Telegrams, "Emphatic." Established 1868.

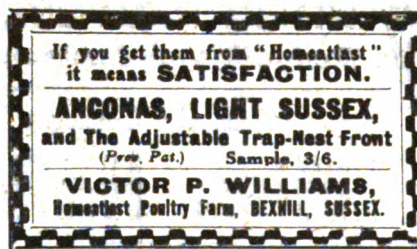
## DR. J. H. BALDWIN

SPRINGFIELD P.F. WIMBORNE, D.

ONLY THE VERY FINEST STOCK

White Leghorns,  
White Wyandottes,  
R. I. Reds

Bred from PENS of TESTED PAR  
and PENS headed COCKFELS bred  
PROVED L2 Birds.



Oyster Shell, English  
American Graded  
Kent Blue Sharp Flint

Free on Rail; Reduction 1  
Send 2 stamps for

F. G. BRANTON, Greenhithe.

**More and Bigger Eggs from your Poultry**  
can be obtained by feeding your birds on a natural and complete food

# PULBIS POULTRY FOOD

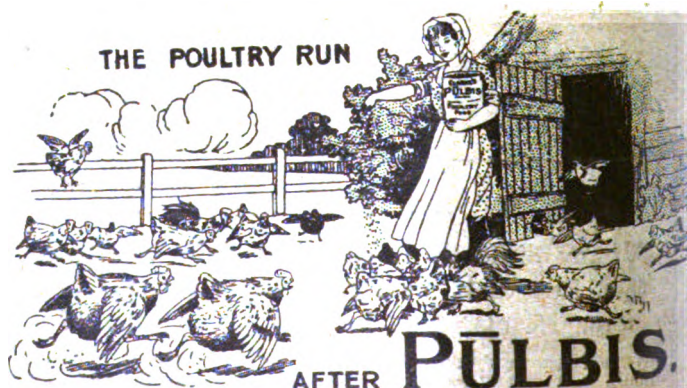
Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

3½ lb. Bag, 1/-. 7 lb. Bag, 2/-.

Made by the Manufacturers of  
MELOX and MELOX MARVELS,  
the PERFECT DOG FOODS.

W. G. CLARKE & SONS, Ltd.,  
LIMEHOUSE, LONDON, E.









# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandotte and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

## Can Any Firm wish for Better Testimony?

Letter No. 65.

Shortley Close,  
Robin Hood's Bay,  
York.  
June 22nd. 1922

Dear Mr. Priest,—

The cockerels I got from you were highly satisfactory. Even though I placed three of them with 71 hens, fertility was never less than 90 per cent., and the resulting chicks are the strongest and healthiest I have ever had. In spite of all I see in the papers about the prevalence of white diarrhoea, I have not lost more than four out of over 400 chicks through bowel trouble of any kind.

Yours faithfully,  
H. LIONEL DYMOKE,  
Captain.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

**BETTER AND BETTER EVERY YEAR.**

**MY WOLLASTON STOCK COCKERELS**  
are Real Reproducers of "MONEY - GETTERS,"  
Bred, Reared and Selected with a Definite Aim.

*Unsolicited Testimonial, out of many, from a  
VICE-PRESIDENT of the S.P.B.A.*

Dear Mr. Hall,—  
The L.S. Cockerels arrived in good form this morning. They are both very nice birds, a credit to any poultry farmer. Many thanks.  
Yours very faithfully,  
SEYMOUR SHAW.

R.I.R. (Boucher) Grandsons of the WORLD'S RECORD Hen No. 37. (1,045 Eggs in four years, and Hen No. 48/479. 306 Eggs in 12 months. Hatched January, 25/-; February, 20/-; March, 15/-.

L.S. (Lister and Lister-Rothschild), my LARGE EGG STRAIN. Hatched January 20/-; February 15/-; March 12/6.

W.L. (Barron-Cam-Barron), bred from the WORLD'S BEST White Leghorn Blood. Hatched March, 20/- each.

### PULLETS—Special Offer.

1921.—60 LIGHT SUSSEX (Lister-Rothschild Strain), magnificent birds and splendid layers, include prize-winners. 15/- each, or near offer to clear the lot.

1922.—40 LIGHT SUSSEX (Lister and Lister-Rothschild). Hatched February-March, will be laying September. 15/- to 18/- each.

All stock offered, carriage paid on approval, deposit, guaranteed bred on my estate, the ideal home of Healthy, Happy and Profitable Poultry.

**HAROLD A. HALL, Wollaston Hall, Wellingborough, Northants.**

August 23rd, 1922.

# EGGS.

OK, also WHITE LEGHORNS,  
6-to-the-lb. Egg Strain

Clear House  
Pullets.  
EACH.



be accepted for 500 Genuine 1921 Hens  
laid 2,522 eggs last week (October to  
December Records over 40).  
and Cockerel, 35/-, carriage paid.  
April 1922 Pullets, from 10/6.

CRAY POULTRY FARM, Ltd.,  
Sidcup, Kent.

Red-to-Lay Strains

OF

W. WYANDOTTES,  
(BARRON.)

W. LEGHORNS,  
(PADMAN.)

Black Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1922 and 1921 Hens.  
Trap-Tested and Passed the S.P.B.A.  
Winter Egg Test.

For Records and Particulars, post  
free on request.

HADEN, S.P.B.A.  
HALL, SEDGLEY,  
STAFFS.

GRANULATED  
MOSS LITTER

For POULTRY HOUSES.

1-Bushel Sack containing  
about 25lb., 2s. 6d.; 2, 5s. 6d.  
A, 5s. 6d.; 5, 12s. 1 cwt. Sales  
canvases covered, 15s. All car-  
riage paid. Cash with order.

THE PEAT MOSS LITTER  
SUPPLY CO., LTD.

72, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it. Great Reductions.

(We Pay Carriage.)

Compare our prices with others. We can supply well-seasoned NEW Timber for the following rates:—

1in. x 4in. T.G.B. 8s. 3d.	1in. x 5in. Sawn Bds. 12s. 6d.	2in. x 2in. Battens 9s. 6d.
1in. x 4in. T.O.B. 9s. 6d.	1in. x 2in. Battens 3s. 6d.	2in. x 4in. Battens 18s. 6d.
1in. x 5in. T.G.B. 10s. 6d.	2in. x 1in. Battens 5s. 6d.	3in. x 3in. Battens 22s. 6d.
1in. x 5in. T.O.B. 12s. 6d.	2in. x 1 1/2in. Battens 7s. 3d.	3in. x 4in. Battens 30s. 6d.
1in. x 5in. T. & G. 15s. 6d.	3in. x 1in. Battens 7s. 3d.	3in. x 6in. Battens 44s. 6d.
1in. x 4in. W'th'b'ds. 5s. 6d.	3in. x 2in. Battens 14s. 9d.	3in. x 6in. W'th'b'ds 9s. 6d.
1in. x 5in. Sawn Bds. 7s. 6d.	3in. x 1 1/2in. Battens 11s. 6d.	2in. x 2 1/2in. Battens 12s. 6d.
1in. x 5in. Do. 9s. 6d.	2in. x 2in. Pitch Pine Posts, 12s. 6d.	2in. x 3in. Pitch Pine Posts, 18s. 6d.

per 100 running feet. Carriage Paid to nearest Goods Station. Cut to lengths or multiples. Cash with order. Special Terms for large quantities. When ordering please state nearest Railway Goods Station. Having now installed a new plant we can give delivery at once. We also supply Roofing Felt. Other sizes quoted for on application.

RUSH & PARK,

Dept. F. Timber Merchants, Claremont Road  
Sawmills, Seaforth, Liverpool. Tel.: 624 Waterloo

Early-hatched s.c. R.I.R. Cockerels and  
Pullets from my Registered Pens (headed by  
sons of Mr. E. C. B. Boucher's World Record  
Hen No. 37, which recorded 1,045 Eggs in  
Four Years), and from other very special  
Matings of Exhibition and Utility Type.

White, Fawn & White Indian Runner, and  
Khaki-Campbell Ducks of my own strains and  
the Finest National Bentley Laying Test  
Blood, and a few Special Fawn & White  
Drakes from Dams which have recorded up  
to 360 Eggs in the year. Also a few special  
Mated Pens.

A. HAROLD PAINE,

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry  
Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

The Chalet, Burgess Hill, Sussex.

Govt. Surplus. YOUR LAST OPPORTUNITY!

— A Big Bargain in BINS —

4/3 each } 6 to 12 4/-. 24 to 50 3/9.  
complete } Immediate Despatch.

Don't miss this Amazing bargain. Cannot be repeated!

As shown, sound, unused, 20 1/2 x 17 x 17; strong wood cases,  
painted, hinged cover. Inside removable metal bin, hold nearly  
cwt. corn. Rat proof. Hold water. Boon to smallholders.

THE LEWIS SERVICE (7), 23 Waverley Rd., Redland,  
BRISTOL.





## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.80	Calcium Sulphate	...	aces only
Silica	...	8.08	Moisture, organic matter, etc	...	8.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.86			100.00

#### PRICES:

P.O.B. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; 23 10s. 6d. per  $\frac{1}{2}$  ton; 25 4s. 6d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 6s. 6d. per ton.

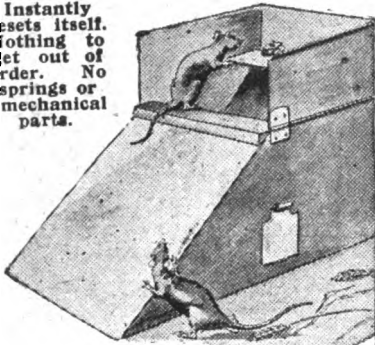
Quarried and Prepared Specially by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

### Hastings Sheet Metal and Poultry Appliance Works, HUGHENDEN ROAD, HASTINGS. THE EVER-READY RAT-TRAP.

Best Trap invented. Catches Rats in a Night.

Instantly resets itself. Nothing to get out of order. No springs or mechanical parts.



No adjustments. Simple and effective. For inside and outside use. Made of strong Galvanized Iron. Patent applied for 6490/22. Free on Rail. 24/- each. Cash with order.

Makers of all Poultry Appliances.

Write for our Price List.

Awarded Certificate of Merit, and Highly Commended at Sussex Agricultural Show.



THE GREEN-CLOVER MEAL PEOPLE.

## STEYNE FOODS FOR STAMINA

Motor Deliveries in Mid. and West Sussex.

**The STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

BARNEVELDER PULLETS, 3-4 months old.  
CHICKENS, 4 to 5 weeks old.

Also Good BREEDING PENS of 20/21

Many Testimonials as to Enormous Success.  
EGGS, 40/- per 100.

LAKENVELDER and all kinds of Water-fowl, Peafowl, Pheasants, Partridges, etc.  
Send Three-pence for reply to—

**G. VAN HECK,**

199, AMSTELDY K. AMSTERDAM.  
3d. Stamp to Holland.

## W. J. HEPPELL—Appliance Poultry Farm—TANTOBIE,

Co. Durham. One of the few Poultry Farms in this Country



with its own Sheet Metal Workshop. Better Working Conditions, Better Work and Lower Prices.

Our Wasteless Hopper is in extensive use—from Devon to Aberdeen. It is efficient. It cannot choke. If you do not approve of this design, we make others, but recommend the Wasteless Hopper as the best, and the cheapest too! Order one now and try it. Return it if unsatisfactory.

Discount of 5 per cent. through the S.P.B.A.

Length.	14in.	21in.	28in.	35in.	WATER FOUNTAINS, GRIT HOPPERS,
Each	...	...	...	...	and Sundries, Poultry Houses, Large or
3	...	22/6	28/6	35/6	Small. Dry Laying Mash, 16/6 cwt. Feed-
6	...	41/6	52/6	67/6	ing Stuffs.

Poultry Farms Planned and equipped.

Illustrated Lists Post Free.

### A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has done more to make them so than

## Tom Barron's

CATFORTH POULTRY FARM, NP. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a good proposition for those who have room to bring them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets.

Profusely Illustrated Catalogue and List sent on request. Postage 1d.

### OF PROGRESS.

## "Poultry Foods and Feeding."

ALSO

## "Chicken Rearing,"

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

## "An Egg in Every Ounce."

## CLOVER MEAL

FOR POULTRY.

"Klovers" brand of Clover Meal is the best Clover Meal on the market and is unequalled for egg production.

"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England.

## ROSSLYN & Co.

30, KENNINGTON PARK ROAD

LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, August 23rd, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months; 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE PRESENT POSITION.

A Hampshire correspondent writes:—"I have read your paper carefully for many months, and have preferred it to any other Poultry paper. But there is one matter in which I am very disappointed; although you deal fully with points regarding feeding, diseases, housing, etc., the financial side is almost totally ignored. You must be well aware that the situation in the Poultry world at present is very bad. All poultry-keepers know that, and it is the great topic of conversation between them, and yet not an echo of that all-absorbing discussion is allowed to appear in your paper. I am personally only running a small show at present, but I was visited to-day by a man who is a well-known and successful poultry-farmer (who originally recommended "Eggs" to me as the only honest poultry paper).

"He expressed his opinion that it was not to the interest of "Eggs" any longer to dwell on finance, as it had become a flourishing property, therefore it might not be in the interest of the management to dissuade anyone from beginning to keep poultry.

"I venture to think, however that may be, that you are missing a magnificent opportunity of keeping the confidence which so many readers give you, in ignoring the difficulties that are around them at the moment.

"The matter should be fully aired and discussed, opinions and experience of readers invited; then, instead of disguising facts, we could all face them, and see if we could not cope in some degree with the situation."

We print the whole of this letter, and will first refer to the suggestion that we have withheld any reference to the subject of finance, because now that "Eggs" is a flourishing paper, it might not be to the interest of the management to dissuade anyone from keeping poultry. This is so manifestly absurd that it would perhaps be wiser to ignore it. The "successful" poultry farmer is such a singularly short-sighted individual that it is very astonishing to hear that he is successful. We may confidently expect that he will accuse the management of suppressing the interesting reports we occasionally receive of hens laying two eggs in one day, because we are afraid our readers will be scared with reports of over-production. He must surely understand that a "flourishing" paper is in a far better position to print unpalatable truths for its readers to digest, than is one which is struggling for existence, and that it would be a very short-sighted policy indeed, not to dissuade anyone from coming into the industry, if we believed it could only result in their failure. However, we are content to leave this to our readers.

With the writer's remark that the situation is "very bad," we do not agree, although we admit it is not so good as last year. Neither the pessimist nor the optimist will help us at present. We must try and look the facts squarely in the face.

The present price of eggs in the London market is 18s. per long hundred; in the corresponding week of last year it was 25s. Presumably this is why our correspondent describes the situation as "very bad."

Let us try to arrive at the cause of this drop in the price of eggs. First, we must remember, the general fall in the price of other commodities. Three years ago we pointed out that the fall in the price of eggs was inevitable, that it would not be so greatly affected by the cost of production, as in relation to the fall in the price of other foods. This, we believe, to have been the factor which has most profoundly affected the price of eggs.

The second is the general trade depression. By most people an egg is regarded as a luxury when it costs more than twopence, and people are not buying luxuries just now. Thirdly, we have undoubtedly been hit by foreign competition, but we must remember this is but one of the factors which have materially affected the price of the home product.

In his lecture on "The Past and Future of the Poultry Industry" to Mr. Bostock Smith's pupils at Heselands last week, Mr. P. A. Francis stated that on most poultry farms which are run for egg-production, the food bill represents 60-70 per cent. of the production cost. Feeding stuffs during June, 1921, showed an increase over the same period of 1913 of 48 per cent., but the value of eggs had also increased to 68 per cent. These figures are based on official wholesale prices. This year the price of feeding-stuffs had gone down to 21 per cent., and eggs were 31 per

grain was added, when they started to lay, they were forming yolks at such a rapid rate that two yolks reached the egg membrane—secreting part of the oviduct—almost at the same time, and were surrounded by a common membrane. The same remarks apply to the shell-less eggs. It is said that sometimes excessive attention by the male will cause the laying of soft-shelled eggs. These may also result from any irritation of the oviduct caused by inflammation.

#### DISCOLOURED YOLKS.

It is well-known that the colour of the yolk can be affected to some extent by the feeding. Maize, clover meal, and mangolds all tend to give a good deep coloured yolk; on the other hand, if too much wheat is given the yolks become pale, as they will also if there is a shortage of green food. When fowls eat freely of acorns, the yolk becomes a most objectionable colour, although the wholesomeness of the egg is not impaired. When cotton-seed cake has been fed to fowls it has been sometimes found that the eggs have become a very bad colour. The condition results from the action of sulphur, which is normally present in the yolk, on small globules of cotton-seed oil which are absorbed into it.

#### LANCASHIRE UTILITY POULTRY SOCIETY.

We are asked by Mr. F. Toulmin to remind readers who desire to enter birds in the First Annual International Twelve Lunar Months Laying Test that the latest date for receiving entries is September 1st. Enquiries should be addressed to Mr. F. Toulmin, jun., Hon. Sec., 45, Fishergate, Preston.

#### THE NATIONAL LAYING TEST.

Mr. J. N. Leigh asks us to announce that 83 entries have been received in the Duck sections of the National Laying Test, including 32 pens of Khaki Campbells, 25 White Indian Runners, 17 Fawn and White Runners, 5 Buff Orpingtons, 1 Magpie, 1 Aylesbury, 1 Hooded Ranger, and 1 Coaley Fawn. Is this the first time an Aylesbury has ever competed in a laying competition?

Mr. J. W. Smith asks us to draw readers' attention to the closing date of the MIDDLESEX COUNTY OFFICIAL LAYING COMPETITION. Entries must be in by SEPTEMBER 30th. Birds arrive October 20th, and the Competition starts on November 1st.

#### CORRECTION.

Our printers dealt most unkindly with Dr. Baldwin's letter on rearing which appeared in issue of the 23rd ult. On page 108, second column, line 4, "try to eradicate that particular bag of tricks," should read: "try to eradicate it in that particular batch of chicks." On page 108, column 2, par. 5, should read, "one's breeding hens," not "one's breeding pens."

### Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

#### A GREAT OPPORTUNITY.

A great opportunity occurs of acquiring four valuable breeding hens, and at the same time assisting the fund for the National Poultry Institute. Mr. Edward Watkins has written:—

"Dear Mr. Newman,—I am prepared to offer (4) White Leghorn hens hatched in 1920 for sale the money to be given to the National Poultry Institute Fund. The birds are daughters of a 261-egg hen, and sired by a son of a 208-egg hen.

Two of these birds had official records of 230 and 236 in twelve lunar months at the National Laying Test 1920-21. The other two put up a record at home of 238 and 241.

Please advise me if you effect a sale, and I will forward them to you, as I would like you personally to see the class of stock I am offering.—Yours sincerely, EDWARD. WATKINS, Writtle P.F. Cross-in-Hand, Sussex."

Mr. Watkin's offer is a very generous one. First-class birds, with authentic records and a pedigree behind them, they should be an excellent investment as cockerel breeders alone. I am open to receive offers.

The pen of ducks kindly offered by Mrs. Manwaring realised 70s., a welcome addition to the fund.

#### ANOTHER WARNING.

Again I must warn members to be very careful to ascertain the bona-fides of any advertisers for poultry produce before they are induced to send their eggs or live stock away. There seems to be an organised gang, or else there is one rogue masquerading under different names. An advertisement appeared in the Poultry Press for eggs, old hens, cockerels, etc. The advertiser has a Russian or Polish name, and his address is in Spitalfields. On his rather elaborate note-heading he states he is agent for a certain person in the Eastern Counties, and this gentleman in his turn, on his elaborate note-heading, states he is agent for the man in Spitalfields. The former's advertisement has ceased for the time being, and the East Anglian has taken his place. Whether they are one and the same person we do not know. One of our members sent some cockerels to Spitalfields, and after great pressure from his solicitor received about half their value, another has parted with £25 worth of produce, and has so far not received a penny, although prompt payment is guaranteed in the advertisement. Since he supplied these goods, my correspondent states he has received applications from two other firms, but when cash with order was demanded, he received no reply. He asks, "Are they all the same gang?" Possibly they are.

## BOURNEMOUTH BRANCH.

## NOTICE TO MEMBERS.

The Winter Session will open on October 11th. Mr. Tom Newman has kindly promised to give a lecture on "Some Causes of Failure." Further particulars will be announced later. Will members please note the date, and kindly tell all their poultry-keeping friends?

A series of lectures by well-known poultry-breeders and farmers has been arranged for the first Wednesday in each month during the Winter Session, commencing in November.

I take this opportunity of reminding members that subscriptions are due on the first of September, and must be sent to me at Fayrmead P.F., Ensbury, Bournemouth. H. J. Williamson, Hon. Sec.

## THE BLACK ORPINGTON STANDARD.

Mr. W. Rice sends me a copy of a letter he has received from Mr. Day, of New South Wales, anent the Black Orpington Standard. In Australia they have two distinct varieties. Fanciers have evolved a breed closely resembling the Cochin, and the Utility men have gone to the other extreme, and are breeding a high close-feathered bird closely resembling the Langshan. Needless to say it is the latter type which has made the wonderful records in the Laying Tests there. Our Australorps are of this type, which is the original type evolved by the late Mr. W. Cook.

The standard in vogue in Australia is declared to be too vague, and the breeders say it gives judges too much latitude, and they want something more definite. Reading between the lines I fancy they are hankering after the Cochin type, and if they succeed it will be the first nail in the coffin of the breed in that country, as it has doomed it to comparative obscurity in this.

Mr. C. A. House, who is visiting Australia, and was present at the meeting, is reported to have said that the standard type given by the Rev. T. W. Sturges in his "Poultry Manual," was but the personal opinion of that gentleman, and no such remarks are included in the standard. I do not think Mr. Sturges was giving his personal opinion. He says:—

"The exhibition strains of Black Orpingtons are not good layers, and the complaint is well nigh universal that it is most difficult to get eggs from December until the end of February, when eggs for hatching exhibition stock are most to be desired, and, moreover, what few eggs are produced do not hatch well. The causes of this are, mainly, threefold. One is that the birds mature slowly, and very readily put on fat unless most carefully fed and managed. Another reason is the exhibition craze for extreme size. Although the Standard fixes the weight of a cockerel at 9lbs., when fully matured, a bird of that size would have but little chance in the show pen, and unless he attains to nearer 12lbs., the report is 'Nice and shapely,' but fails in size, 'or there is not enough of him.' A very large cockerel is never as good a stock getter as a smaller bird. The third and most powerful reason—because it is the origin of the other two—is that the present day exhibition fowls have a very large and too prepotent mixture of

Black Cochin blood, which is most noticeable in the superabundance of fluff. Any observant visitor to a large exhibition in an evening, when the birds are resting in their pens, will stop at the Black Orpington class, and think he is looking at the Black Cochins, or vice versa. And when they stand up, although in the Cochin class he observes the abundant foot and shank feathering, and in the Orpington clean black eggs, he cannot but notice the Cochiny cushion of the Orpington hens, and the abundant fluff on the thighs of both sexes. And yet the first word in the standard under the heading of plumage is 'Close,' and then is added, 'black throughout with a green sheen or lustre upon it, free from coloured feathers.'"

Mr. Sturges is evidently not giving a personal opinion here. He is definitely quoting the standard as it existed in 1915. And how Mr. House, with the book before him, can think otherwise, is puzzling.

Mr. Sturges then goes on: "The Black Orpington to-day is anything but 'close' feathered, and this departure from the *still published* Standard of Perfection has done more than anything else to diminish its usefulness and popularity." Further, "The Standard rules, open with the sensible statement, 'As it is the intention of the club to fully develop and maintain good laying and table properties in judging the variety, attention should be strongly directed to points indicating these qualities.'"

Mr. Sturges then quotes the Standard, which plainly says: "Plumage, Close," and it is evident that our English judge had forgotten the English standard, or else he must have given a very cursory glance at what Mr. Sturges has to say, or he would never have suggested it was but a personal opinion.

There is one thing that is certain that you cannot have "fluff" and eggs. Selection for egg production invariably results in close plumage, and that is a point our exhibition friends may well bear in mind, and ask themselves whether these and other non-essential points to which they attach so much importance, are not the little things which make the division between the Fancier and Utilitarian.

## THE LONDON AND DISTRICT POULTRY ASSOCIATION.

A lecture was given at Brondesbury Hall on August 2nd, by Dr. J. C. Clayton on the "Anatomy of the Fowl." The lecturer dealt with the Anatomy of the Respiratory and Digestive Organs of the fowl as well as the reproductive organs and kidneys. By a series of eight diagrams he traced, first, the journey of particles of air from the nose and into the air sac in connection with the bones, and, secondly, the journey of particles of food from the beak to the Cloaca showing the function of the various organs met with, and finally dealt with the functions of the Reproductive Organs and Kidneys.

A hearty vote of thanks was accorded by Captain Smith.

The schedules for Annual Utility and Exhibition show are now ready.

S. F. WILLIAM, Hon. Sec.

89, Purves Road, Kensal Rise, N.W.10.



## Foods and Feeding.

By TOM NEWMAN.

### FOODS AND FEEDING.

I note in a contemporary the following remarks on Vitamines: It more particularly refers to the papers read at the Harper-Adams' Conference:—

"All this talk on foodstuffs entirely failed to tell poultry-keepers what vitamins really are, or how they can be certain when they are really feeding these elusive, yet all-important accessory food factors. True, various mashes were advised as the result of practical experience which showed exactly what fowls fed on such mashes could do, but until we know exactly what vitamins are, we shall make no real progress."

This seems to me to be rather contradictory, for in the first place the writer says we have failed to show when we can be certain we are feeding vitamins, and then says various mashes were advised which showed what fowls fed on such mashes could do. However, his article was intended not as a criticism, but to point out the need of further research into problems of Nutrition, and we must all agree with him there, for at present only the fringe of the problem has been touched.

With his remark that "until we know what vitamins really are, we shall make no real progress," I cannot agree. Substantial progress has already been made, in spite of the fact that they are chemically unidentified.

At the Harper-Adams' Conference the remark was made that vitamins were present in all natural foodstuffs. That is true, but it is also true of the proteins, fats and mineral salts. What we are faced with is the fact that the heavy producer does not get them in sufficiency to enable her to lay eggs capable of producing healthy and vigorous progeny. I know nothing of cattle, but am given to understand by experts that the progeny of high-recording cows exhibit certain weaknesses which are comparable with those of high-recording hens. We may presume they have the natural foodstuffs in abundance, and they are also supplemented by artificial ones, and yet the milk is depleted of certain essential constituents, or the progeny would not suffer.

However, important as they are, we must not confine our attention wholly to vitamins. I was careful in my paper to point out that Dr. Plimmer when making his experiment had to consider three factors—the protein and mineral content, and the vitamins. The quality of the protein is of the first importance, that is a factor which we have only realised within the last few years. As to the mineral content, older readers will remember the experiment made with willow leaves and clover meal. Chicks fed with a mash containing the former made much more rapid growth than with that containing clover. There is every reason to believe this was solely due to the superior ash content.

### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager, "Eggs," 94, Farncombe Street, London, S.E.16.

I want to answer here two or three questions from Miss Bayne. Her first is: "You say no grain was given in the rearing experiments, but oatmeal is but kibbled grain, and would probably answer the purpose of grinding work for the gizzard?"

Oatmeal is, of course, the kernel of the oat, and would not give the gizzard the work that the harder seeds do, but, as Miss Bayne says, it would probably provide the work. But are we not looking at this question of the gizzard from the wrong aspect? It does not follow that because a fowl has a gizzard that it is necessary for us to find the gizzard work to do. Indeed, the harder we make it work, the greater the strain we impose on the digestive organs, and we must remember that a heavy layer needs to digest her food very quickly.

Miss Bayne next remarks: "To fulfil their entire purpose, these experiments should include rearing of pullets of a laying strain, say, Leghorns, where weight in any case cannot be greatly affected. One would also like to know if this very early maturity affects the stamina of a bred-to-lay bird. We have always been taught to avoid it like the plague, indeed it has usually been considered a sign of mismanagement when pullets laid at four months."

The experiments are being continued, and the results will be published in "Eggs" from time to time. Arrangements have already been made to include Leghorns. Now as to the second part of this question. The pullets which laid at 16 weeks old are fully developed, and this development was the result of food, which they were able to utilise to the utmost advantage. We must not compare them with the undersized specimens, which are the result of selective breeding. They would weigh, at least, 2lbs. more than the average utility Wyandotte of the same age. It is, of course, very necessary that we should not lose sight of their breeding, and its influence on size, but the later experiments were made with Light Sussex.

Miss Bayne then asks: "Can we by administering cod liver oil and yeast to breeding stock, ensure a suitable supply of vitamins for the embryo. Do they affect the stamina of the chick?"

We have to remember that the stamina of the chick depends almost entirely on the quality of the egg from which it is hatched, and must in a great measure depend on the foodstuffs. Not entirely so. I would not for a moment contend that by any form of feeding, we could get more hatchable eggs from a hen whose

Eggs are notoriously bad to hatch. That is probably a matter of constitution. What we are concerned with is the naturally good hatcher, whose eggs are depleted of certain essential elements by over-production.

Miss Bayne then says: "Grain, I believe, means slower development, more work for the gizzard, tighter feathering, lasts longer than a crop entirely filled with soft food, and we always look upon it as the concentrated starchy part of the ration, i.e., the mash is far more bulky and less satisfying."

In answer to this, there is no reason why we should not supply the energy-producing foods, i.e., the starch, in a more assimilable form than with grain; while the actual digestion of food is taking place, it is probable the appetite is satisfied, but the body is not nourished until the food is digested, and the more easily the food is digested the more will be digested, which is a matter of great importance to the heavy layer. Grain undoubtedly lasts longer in the crop than mash, and years ago we were, and I believe still are, advised to give a heavy feed of grain at night; but I have tested the result of feeding mash at night and grain as first feed, and vice versa. There was no difference in the health of the birds nor in egg production. Our object is to nourish the body, and not merely satisfy the appetite. I have found that birds fed on dry mash are, as a rule, much tighter in feather than those fed on wet. I must thank Miss Bayne for her letter, which raised some interesting points.

## THE REARING SEASON.

By Miss E. A. BAYNE.

Many people seem to be complaining of an unusually bad rearing season, and possibly it has been in many quarters where conditions in the Spring are usually fairly good. Even on the South Coast the weather seems to have been most unusually severe, and so methods which have given good results in other years have failed this time.

But in the North of England we always have a trying Springtime, with bitter winds, and our chicks have to face conditions which make even a well-protected human being shudder, so that we are obliged to think about their comfort and well-being all the time, or we might easily lose a great many of them.

Perhaps a short account of our methods may help some who have been in trouble this year, and save them repetition of the same.

The tiny chick, just hatched out in a temperature of 102 degrees or 103 degrees, is a tropical bird for the time being, very very sensitive to any great change in temperature, and this we must avoid if we wish to escape certain trouble.

Some hot-air incubators are not packed down to the bottom of the nursery drawer, which is a mistake, and means that the chicks drop into a much lower temperature. The packing should always extend right to the bottom of the machine.

We leave the chicks in the incubator, many of them in bags made of cheese cloth, which is more airy than

## GOODWILL

*is a tangible asset to a business; it brings orders when demand is at its lowest; it is business momentum, and may be likened to the force which keeps the ship moving forward after the engines have stopped.*

An advertisement in the 1923 Year Book and Register of The Scientific Poultry Breeders' Association will help you to build up goodwill. Every Member of the Association receives a copy of this Book, and refers to it many times in the course of the year. By advertising in it you can obtain an introduction to these 4,000 Members, as well as to thousands of other Poultry Keepers who are not yet Members.

Advertisement space is now being booked up, and you should lose no time in fixing up your advertisement or writing for fuller particulars. There is no excuse for staying out on account of expense, for you can obtain space as low as 8s. Address your enquiries to Advertisement Manager, 94, Farncombe Street, London, S.E.16.

muslin and stronger, until quite the end of the 22nd day. They are then removed to an indoor brooder, which has a covered night nursery and uncovered playground. The chicks are put into the night nursery and stay there until the following morning, the temperature not exceeding 95 degrees.

The intervening door between night nursery and playground being raised, many of the chicks come out of their own accord, and their first meal consists of sifted sand covering the floor—this they eat instinctively. The night nursery is littered with fine oat chaff placed over a slight sitting of air-slaked lime.

By the middle of the morning we prepare their first soft feed, which is placed on squares of cardboard, in the day nursery; every chick being put out there, and a little "tapping" induces many to eat. All must be put back, and this performance is gone through every 2½ hours during the day until each chick knows its way out and in. Rather laborious, you may say, but they very soon learn, and after that they are really not much trouble!

I am entirely satisfied that soft food only is best for the first two days, after that we give three grain and three soft feeds to incubator chicks, until they are about a week or ten days old, when we cut out one soft feed.

When the chicks are above five days old, weather permitting, they are transferred to an outdoor brooder—100 chicks' size—into which we put not more than 50 chicks, 40 later in the season, but I am writing on rearing in January, February and March. Unless the weather is bad we entice the chicks out on the grass as soon as they seem at home in the brooder, feeding them outside, and after that only shutting them in at night. They are let out into their small wired run every morning, and by moving the brooder back each day we get a fresh patch of grass untouched by frost, where it has stood, and after three weeks the run is removed, and they roam entirely at liberty. We keep a sheltered green near the house, catching all the sun, for these young birds, moving them into a fresh open field, well grazed, as soon as they are old enough to

run free, but placing the brooders in the most sheltered positions we can find.

Our brooders, both indoor and outdoor, are a well-known make, very well made, and particularly adapted for rearing in exposed situations. The system of ventilation is extremely good, and ensures a supply of warmed fresh air continually circulating in the night nursery of the appliance, which consists of a box on legs at one end of the brooder, the lamp resting on the floor of the brooder itself, and space being cut out of the floor of the hot box for this purpose, which space in its turn, is wired round.

When the chicks are old enough to do without the warmth of the lamp, which happens at from five or six to seven or eight weeks old, according to the season, the hot box is removed, and the chicks in fewer numbers, may remain in the enlarged space for a short time longer. This only happens before the end of the season, for, as a rule, the chicks are transferred to small houses, in order to make room for the younger ones coming on.

The great problem is undoubtedly finding the best appliance for use in these small houses, and we find a hot box, similar to that in the brooder, is most satisfactory. Here we have an appliance raised on legs, so avoiding a floor draught; so fatal to partially-feathered chicks, and ensuring that good ventilation in the sleeping apartment, which is so eminently desirable.

We only use a thermometer while the chicks are in the indoor brooder; after that we are guided entirely by their demeanour as to the amount of heat to give. One soon becomes expert at seeing whether they are happy and comfortable, or the reverse. If too hot, they will endeavour to get away from the heat; if not warm enough you will find them huddled together—poor little beggars at our mercy; is it any wonder they give up the struggle when left to pot-luck?

Overcrowding is one of the worst evils, and brings its inevitable punishment, but too few in a brooder on a bitter night may result in many going "west," so that one needs judgment all along the line.

Of course, the heat in the brooder is gradually reduced, but no hard and fast rule can be made, as warmer or colder weather require a different adjustment.

As the chicks grow, their night quarters will get too small for them, and in this connection it is wise to have larger sleeping accommodation when they are moved from the brooder, and, later, the hot box may be entirely removed, and a covered lamp substituted, simply to take the chill off the larger space.

Later chicks will often sleep quite comfortably in a large box covered with a sack, but a lamp should always be handy for day-time use in bad weather, as at night they may maintain sufficient heat, but during a bad day they need some warm place where they can quickly feel comfortable after running out. I am not at all sure that it is not better to keep them in altogether on a particularly wet and cold day, if only half-feathered—this being a very critical time with all chicks.

We keep the floors in our chicken houses littered with sand and chaff only an inch or two deep, constantly cleaned out and fresh chaff put in later; when the young birds run free, i.e., are not closed in at

## ARGUS

was possessed of a hundred eyes, of which only two slept at a time.

As you have only two eyes, Mr. Poultry Keeper, and these to sleep sometimes, you must make provision for what happens when your eyes are closed.

An Insurance against fire, storm, theft, foxes, etc., can be effected at Lloyds at the minimum of trouble and expense.

Write to the Advertisement Manager of "Eggs," 94, Farncombe Street, London, S.E.16, for proposal forms, rates of insurance, etc., which he will furnish free and post free.

night, which happens when they are about three months old, only sand is used on the floor. This is sieved every week, more being added when necessary, and we find this nice and cool, the chicks getting sufficient exercise running out from four to five o'clock in the morning until 10 or later at night.

When we entirely remove the lamp, which is often needed for early chicks until they are ten weeks old (Wyandottes) in our part of the country, we put in the dropping board, nailing a sack along the front, and they sleep behind that for awhile. Soon they sleep on the dropping-board itself—they may want putting up for a few nights—and when all are found up there when locking up for the night, the trap-door may be left open. We put in the perches when the birds are about four months old.

As many chicks as possible are reared under hens, usually pullets as a matter of fact, as it is a difficult matter to find broody hens in January, February and March, but a certain number of the early hatched pullets go broody at this time, and most of these prove both good sitters and excellent mothers.

Chicks reared under hens seem tighter in the plumage than those artificially reared, and often seem to do better, the reason being that they feed well in small numbers, and we certainly consider that stamina is conserved in natural rearing, all other things being equal. It is essential that the mother hen is free from vermin, and dusting with pyrethrum powder once a week all the time she is sitting and rearing her chicks will keep her clean. She has sand and chaff in her coop, constantly renewed, and is never allowed out while brooding, the coop being moved every day, and put in the rearing field after three weeks.

Sufficient litter must always be allowed, or the toes may easily be spoilt by not being able to grip on a wood floor. All our coops have removable floors, for easy cleaning, and it would be quite mad to try and dispense with them in the far north early in the season.

I fancy many troubles with brooder chicks arise through the day nursery being kept too warm; it should be really kept as cool as possible by having the window always open. Cold never hurts chickens, so long as they have a place to run into, where they can quickly warm up and run out again, but it is enervating and weakening. Grass should always be kept short for chicks; they get cold in long wet grass, which is very bad for them. The lawn mower will keep a small plot in order, but for larger spaces sheep are most useful, grazing well, being little or no trouble, and improving the pasture. All runs should be dressed with basic slag every year, or every other year, as is required.

# HOW TO INCREASE YOUR POULTRY PROFITS

Lay a Firm Foundation by securing Healthy Recorded Cockerels.

**NOW is the time to BUY CHEAP.**

We have for disposal a limited number of Feb., March and April Hatched Leghorn Cockerels from our Special Cockerel Breeding Pen that contained the following Birds :

Bird No.	Pullet Record.		PRICE :—
62 <sup>1</sup> / <sub>2</sub>	248	} Mated to Cockerel Dam 281 Sire's Dam 284	<b>£1 1s. Od.</b> Each. Carriage Paid.
65	240		
67	242		
123	247		
142	238		
144	242		
146	239		
148	237		

All the above Birds have been reared and trapnested at "Lindhurst Poultry Farm," therefore we guarantee *the records authentic.*

Telegrams:— . . . . .  
... Utility. . . . .  
... Wilmslow



Telephone:— . . . . .  
... 162 Wilmslow

Full Particu-  
lars sent with  
each Bird.

**Lindhurst  
Poultry Farm**

Moor Lane,  
WILMSLOW.  
CHESHIRE.

Inspection  
Invited.

M.S.P.B.A.

N.U.P.S.



# ROUP, GAPE, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

*Supplied on Application FREE OF CHARGE by the Manufacturers of*

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER rubbed amongst the Feathers instantly kills the Birds of FLEAS, LICE and such Parasites.

### IZAL FLUID.

8/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

### IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Bag.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

## COMPARE OUR PRICES ALSO OUR SAMPLES WHICH ARE FORWARDED FREE ON APPLICATION.

	Owt. s. d.		cwt. s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa)	18 0	"Moregg" Dry Mash	17 0
"Moregg" Laying Meal (no Alfalfa)	17 0	Poultry Mixture	17 0
Pure Sussex Ground Oats	20 0	Poultry Oats (clipped)	17 0
Pure Alfalfa Meal	22 0	Kibbled Maize (screened)	15 0
Pure Clover Meal (not Cob or Chaff Dust)	18 0	"Rearall" 1st Chick Feed	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt)	21 0	"Thryvon" 2nd Chick Feed	22 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.)	23 0	"Matua" Chicken Mixture	20 0
Carriage Paid.		Chick Mash	18 0
		Carriage Paid.	

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret that owing to the short crop of GREEN ALFALFA we have been compelled to raise the price 2s. 0d. per cwt.

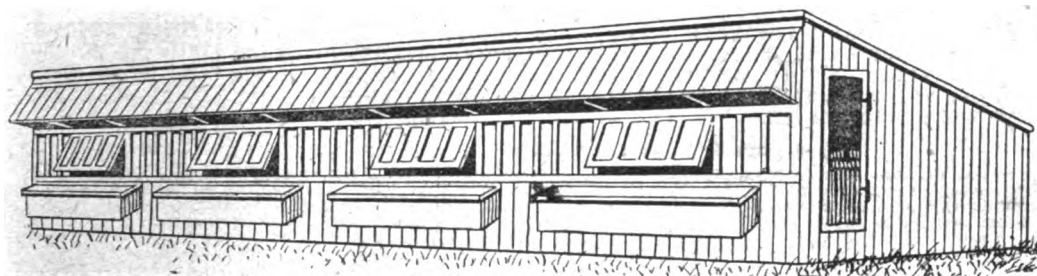
**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

# C. A. SYDENHAM HANNAFORD, Hamworthy Junction, M.S.P.B.A., DORSET.

(Late Manager to RANDOLPH MEECH).

The Leading POULTRY APPLIANCE Maker in this Country FOR SOUND GOODS.

## Why is My "POPULAR" House so POPULAR? BECAUSE I SEND IT OUT AS ADVERTISED, IT IS COMPLETE.



No. 1.	6ft. long, 10ft. wide	£14 5 0
.. 2.	10ft. long, 10ft. wide	£19 4 0
.. 3.	16ft. long, 10ft. wide	£27 1 0
.. 4.	20ft. long, 16ft. wide	£42 5 0
.. 5.	30ft. long, 16ft. wide	£62 2 0
.. 6.	40ft. long, 16ft. wide	£82 3 0

### FLOOR AND SLEEPERS.

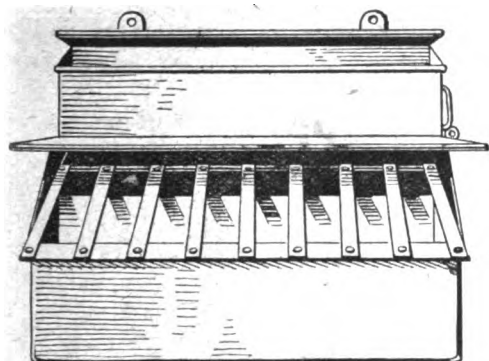
No. 1.	... ..	£3 6 6
.. 2.	... ..	£4 0 3
.. 3.	... ..	£7 12 0
.. 4.	... ..	£14 9 0
.. 5.	... ..	£20 3 0
.. 6.	... ..	£26 2 6

All  
Carriage  
Paid.

ANY SIZE QUOTED FOR.

PENETRATING, the best preservative, IS INCLUDED.  
SLEEPERS, which are penetrated, ARE INCLUDED.  
WATER FOUNTAINS, best galvanised iron, ARE INCLUDED.  
DRY MASH HOPPERS, also best made, ARE INCLUDED.  
BEST 2-PLY FELT ON ROOF, THIS IS INCLUDED.  
DROPPING BOARDS, PERCHES, BOLTS, LOCKS, LATCHES, GLASS, TWO WIRE DOORS to No. 3 Size, and up, IN ADDITION to WOODEN ONES. All Prices. Less 5 per cent. to M.S.P.B.A.

IF YOU ARE NOT SATISFIED WITH YOUR PRESENT SUPPLIES, WRITE ME, I WILL GUARANTEE SATISFACTION.



### THE IMPROVED DRY MASH HOPPER.

2ft. long, 10s. each, £10 16s. 0d. per doz.  
12in. long, 11/- each, £6 0s. 0d. per doz.  
Packed Free and Carriage Paid.  
Less 5 per cent. to M.S.P.B.A.

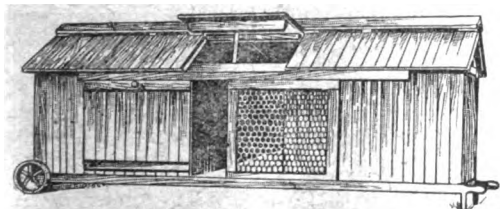
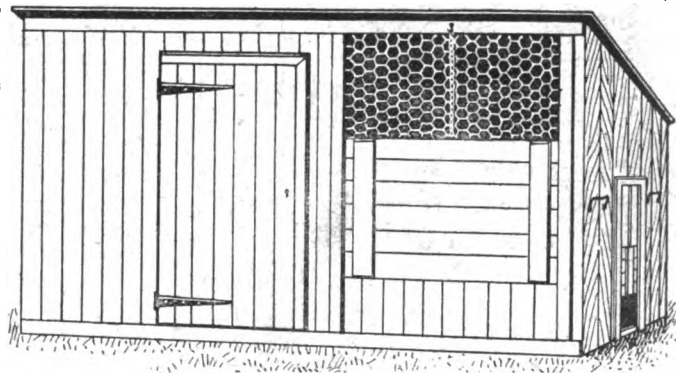
## The "BEAT ALL" House.

6ft. long, 4ft. wide,  
4ft. high, made of  
4 matching, on  
stout planed fram-  
ing, handles, shut-  
ter, perches, screws  
for erection, lock,  
etc.  
£2 10s. 6d.  
Floor, 14/-.  
Carriage Paid.

My  
Goods are  
Made to Last  
and  
For the Comfort  
of the Birds.

INSPECTION  
INVITED.

IT WILL PAY YOU.



## The "C.A.S.H." Night Ark.

No. 1. 9ft long, 2ft. 9in. wide, to accommodate from 50 to 60 chicks up to killing size, £4 11s. 3d.; penetrated, 7/-; 4 nests, 16s. 6d.

No. 2. 6ft. long, 2ft. 9in. wide, to accommodate from 30 to 40 chicks, £4 1s.; penetrated, 6s.; three outside nests, 12s. 6d. Carriage paid and less 5 per cent. S.P.B.A.

I am also now making another design, without wheels, 4ft. 6in. long, 2ft. 8in. wide, 3ft. high, at £2 10s. 0d., carriage paid. This is made with extended handles, which enables it to be moved easily.

ALL PRICES QUOTED ABOVE ARE SUBJECT TO 5 PER CENT. REDUCTION TO M.S.P.B.A. MEMBERS WILL PLEASE UNDERSTAND THAT THE 2½ PER CENT. DEDUCTED FOR S.P.B.A. WORKING EXPENSES IS NOT DEDUCTED FROM THE ABOVE 5 PER CENT. VACANCY FOR TWO WORKING PUPILS ON MY POULTRY FARM.

# ALL "VITA" METAL (THE LIVE TRAPPER). TRAP NEST FRONT

INFALLIBLE IN ACTION. VERMIN PROOF. THE FASTEST AND MOST SENSITIVE TRAPPER IN EXISTENCE.

*Fitted with Aluminium Drop Shutter Half as Light as a Wooden one.*

A COMBINATION OF DESIRABLE AND USEFUL FEATURES, AND A PRECISION MADE ARTICLE.

CANNOT WARP.

CANNOT BREAK.

A SINGLE ACTION RESETS THE NESTS OR LOCKS IT OPEN.

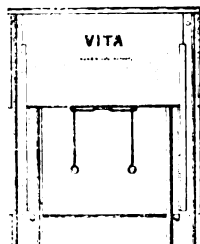


FIG. 1.

THE NEST SHOWN READY FOR TRAPPING. THE FREE SWINGING BOLTING WIRE OPERATING A SENSITIVE RELEASE, AND ALLOWING THE BIRD TO GET WELL INTO THE NEST.

THE NEST SHOWN LOCKED IN THE OPEN POSITION, ALLOWING BOTH HANDS FREE TO GET OUT AN OBJECTOR, AND PROVIDE AN OPEN NEST AT WILL.

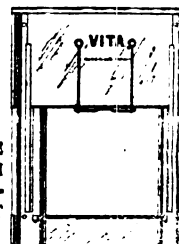


FIG. 2.

Roderick's Prov. Patent No. 17990.

The "VITA" trap-nest is a genuine attempt to provide an appliance that has all the desirable features with regard to operation and to meet the conditions of working, together with freedom from replacements, and at a price that ensures an instant demand. It would be impossible to produce this nest at the price, to sell as a single unit, therefore the minimum quantity we can supply is four, which is a sufficient number for a single breeding pen and prices are based on this number and upwards.

## PRICES:—

Set of 4	-	-	-	14/3	Carriage paid		Set of 12	-	-	-	38/6	Carriage Paid
Set of 8	-	-	-	28/6	"		20 and upwards	-	-	-	2/9	each

WE STOCK A LARGE QUANTITY OF THESE NESTS AND CAN GIVE DELIVERY BY RETURN.  
OUTSIDE DIMENSIONS 14½ inches by 11½ inches. Special Quotation for 100 and upwards will be given.

—THORP-RODERICK MFG. CO., 32, Broadway, BEDFORD.—

## REDUCED PRICES.

### CLARK'S PURE SUSSEX GROUND OATS.

GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s.	d.
7lb. Bags	2	3
12lb. Bags	3	9
28lb. Bags	7	6
56lb. Bags	12	9

Prices per Cwt.

	s.	d.
1 cwt	25	0
3 cwt	24	0
6 cwt	23	6

Carriage Paid nearest Station in  
England and Wales.  
Bags included Cash with order or  
Deposit with "Eggs."

W. H. S. CLARK & Co., Ltd.,  
56, HIGH STREET,  
LEWES, SUSSEX.

## GREAT BARGAIN!



Only **£5** Free on  
Rail.

This house is 9ft. 0in. x 5ft. 0in. x 8ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected fin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-;  
if in 2-in MATCHLINING, 10/-

SHIPLEY FIELDS POULTRY FARM,  
SHIPLEY, YORKS.

'Phone: 521 SHIPLEY.

## NOTE NEW PRICES.

### GENUINE SUSSEX GROUND OATS STONE GROUND in SUSSEX,

	per cwt
Dried Buttermilk (for chicks)	20
Sussex Ground Oats	18
Maize Meal	18
Maize Gluten Feed	18
Pea Meal	18
Bean Meal	18
Meat Meal (Fine Ground)	18
Fish Meal (Best White)	18
Biscuit Meal (Fine)	18
Clover Meal	18
Broad Bran	18
Middling (Best Fine White)	18
Middlings (English)	18
Feed Wheat (Best English)	18
Feed Oats (Best English)	18
Kibbled Maize (Sifted)	18
Flint Grit	18
Limestone Grit	18
Oyster Shell	18
Cockle Shell	18
Dried Yeast	18
Rolled Wheat (for Chicks)	18
Pinhead Oatmeal	18
Whole Oat Groats	18
Broken Rice	18
*No. 1 Chick Feed	18
Mash for Laying Hens	18
(Both the latter are Mr. Tom Newman's Recipes.)	

FREE ON RAIL, HEATHFIELD or  
LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.

Terms:—Cash with order.

Carr, Macdonald & Clevely, Ltd.  
Britannia Mills,  
HEATHFIELD, SUSSEX.

the slag encourages the growth of clover, and, having a large percentage of lime, it sweetens the ground at the same time.

When a small grass plot is used many times in the course of a season it may be kept sweet by sprinkling with air-slaked lime as it gets used up. The lime may be kept in a cannister, with perforated lid.

If the parent stock is sound, and strict cleanliness observed, there should be few epidemic diseases, if any, unless through mistakes in brooding, unsuitable or flimsy appliances, or bad food.

Our appliances are scrubbed out on a sunny day, with hot water and ordinary soap—a little Izal in the water, and thoroughly sun-dried—cleanliness and sunshine being the best disinfectants we know. We consider scrubbing is better than limewashing for coops and brooders, as the dirt is entirely removed, while with limewashing it may only be covered up.

Fresh air for chicks is absolutely essential, and without it, especially in their sleeping quarters, we cannot get that rosy look of health which makes the youngsters look so lovely. They need smaller space until they are feathered, and extremes of all kinds should be avoided, but after that plenty of pure air, without draughts, should be provided. All houses should be open-fronted, with removable glass or shutters, which can be taken out when the weather becomes suitable.

Until chicks attain their adult plumage they are more susceptible to inclement weather, and require watching all the time until they are full grown, and rearing troubles are over for another year.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

A. M. B. (Okehampton). It is unfortunate that this particular building faces north, even, although as you say, the birds will be out in all but inclement weather. It is a disadvantage, because it necessarily

means a much colder house, and fowls, like everything else, are the better for light, warmth and sunshine. (2) I doubt whether the spinney would be a good place for breeding pens, would it not be damp, and a 6 x 4 house is a very small one for a breeding pen, even with a 8 x 4 scratching shed. (3) The best floor for the pullet house would be cement, as you suggest; for the hens you must certainly have a wooden floor to the house, but this would not be necessary, for the runs, you must be guided by the state of the litter as to how often it would be necessary to change it. Peat moss alone is not a good litter. (5) As to feeding, I suggest the following for both breeding pens: 3lbs. Bran, 4 Middlings, 1 each Sussex Ground Oats, Maize Germ Meal or Fish Meal. This is a dry mash, and should be in hoppers always before them. For the pullets substitute Maize Gluten Feed for Maize Germ Meal, and during the dark winter months—October-February—reduce the amount of bran to 2lbs. The grain allowance should be 1½ozs. daily, and should always be fed in the litter. (6) Maize should never be fed whole, it is far less digestible than when cracked, and the birds do not get sufficient exercise. (7) Limestone Grit, if a good sample, is an efficient substitute for Flint Grit and Shell. (8) I prefer the nest boxes about 2ft. from the floor. (9) I can only refer you to our advertising columns as to trap-nest fronts. (10) I do not know any books devoted entirely to the keeping of fowls on free range. As a matter of fact it differs very little from what is called the semi-intensive system. "Poultry Keeping," by C. A. Flatt (Methuen) is an excellent work.

Venture (Shotley Bridge). I would prefer a good sample of Sussex Ground Oats to oatmeal, as there are no mineral salts in the latter, but you can use oatmeal in the same proportion as you are using the Sussex Ground Oats. It is good either for matured birds or chickens.

Major (Lyminge). Nothing you can do will prevent your pullets coming into lay as some of them have started, and the others are reddening up. If you attempt to check them by reducing the feed, that will also check bodily development. A change to a fresh run may check them temporarily. I should put them on the following mash for the present: 4lbs. Bran, 4 Middlings, 1 each Maize Germ Meal, Sussex Ground Oats and Fish Meal, and as the grain feed give two parts good oats and one wheat. In the middle of next month reduce the bran to 3lbs., and a month later to 2lbs., and then give equal parts kibbled maize and wheat as the grain feed. It is probable that a percentage of those which lay this month will moult in October or November. I think you are stating in the right way. You will find C. A. Flatt's "Poultry Keeping" a useful book and also Toovey's "Commercial Poultry Farming."

T. H. C. (Sherington). I think in a wet mash 25 per cent. bran is too much, unless you use it entirely to dry off with; bran is less digestible, and loses much of its value when scalded. It would be wiser to reduce it to 15 per cent., and increase the middlings proportionately. I should much prefer Maize Gluten Feed



to Maize Meal in a layer's mash. (2) English or foreign oats could be ground locally and substituted for Sussex Ground Oats, but they would have to be very finely ground, and it would depend a great deal on the machinery. The wet mash for ducks is all right, but they can do with more Fish Meal than fowls. I do not think it necessary to reduce the Maize Meal. When a bird is laying heavily she needs fats.

A. N. F. (Ringwood). Delay in replying to your query is due to the fact that you sent it to Miss Knight instead of to me. The "growth" at the base of the feathers is due to the birds being in a verminous condition. The cause of this you are in a better position to judge than I am; dust them with two parts sulphur and one lime.

A. D. (Uffculme). I cannot say whether the judge you mention is "qualified" or not. Utility judges do not pass an examination, if that is what you mean, and there is no recognised standard to judge by, and they often differ on material points; their decisions are sometimes rather puzzling. (2) The Poultry Club does not allow a bird to wear a ring at all at shows. (3) I do not know, of course, to what you are referring, but a judge could certainly not "handle 537 birds in a morning to judge capacity, etc., and do them fairly." Neither could he do a quarter of that number in the time. The judge may have had good reasons in one class for giving cards to all 1922 birds, and in another to all 1921. As I don't know the circumstances, I can't express an opinion. I really don't understand your question as to whether "anyone can judge an immature pullet not near laying as against a hen in her lay." In my opinion immature pullets should not be exhibited, and I defy any judge to say what their value will be as layers. (4) You cannot use dried yeast instead of fish meal, but you might use 5 to 7½ per cent. of each in the mash. (5) It is always best to use a properly constructed hopper instead of a trough to feed dry mash. If you turn to "Eggs," of June 7th you will see the whole thing described from shell to maturity. (6) Presumably your pullets are Rhode Island Reds, as you say they are light in colour. It does not matter that they were bred from pullets, as they will be hens when you want to mate them, so you can mate them to a vigorous cockerel, using a second season male will not give the chicks more stamina. If the birds have free range you can put 45 to 50 hens with three vigorous cockerels. (7) No. I don't think it would be wise to mate the cockerel to these four pullets, as he is so closely related, that you must avoid. I am pleased you find "Eggs" so useful.

R. P. (Stokesley). I cannot see that you can possibly lay out the land to better advantage than you have done, but you have given me no idea as to its size, so that I cannot say whether you are overcrowding or not. I don't think a 6 x 4 house is big enough for a breeding pen with such small runs. It is a very different matter when they are on free range. I think as you only want to keep two varieties, Leghorns and Rhode Island Reds would be the best. From five

months old the formula for a dry mash should be: 3 Bran, 4 Middlings, 1 each Sussex Ground Oats, Maize Gluten and Fish Meal. When the short days come reduce the bran to two parts, parts are by weight.

In Doubt (Larkhall). Both these samples are Maize Germ Meal. I cannot detect the slightest difference.

W. J. T. (Ilford): It is not unusual for pullets which have been laying heavily to lose the feathers on the abdomen. In such cases the abdomen is nearly always red. It is more often seen in fowls which are kept in confined runs. When the bird gets her new plumage she will be all right.

G. P. (Bastford). We can only reply to members of the S.P.B.A. by post; to non-members a charge of 2s. 6d. is made. I would not advise you to mate pullets hatched as late as May 10th next year at all, certainly not in February. If you wish to do so, however, get a vigorous early hatched cockerel.

G. P. P. (Pinkney's Green). The mash must be far too stimulating, if all the eggs are double yolked. If you had given me its actual composition I might have been able to help you better, but your birds will be ruined if you don't alter it. I should reduce the maize by 50 per cent., and give oats instead of maize in the grain feed. It would be also advisable to reduce the fish meal by one half for the present.

A. E. P. (Ossett). The samples you send are all of good average quality, and the price reasonable.

#### POST-MORTEMS.

S. M. P. Your bird had minute worms in her intestines. She had peritonitis, due to having ruptured 4 yolk sacs internally. Her kidneys showed an early stage of internal gout, which is due to excess of protein. You say that your birds are on free range, and that your mash is made to T. Newman's formula. Then it contains 10 per cent. Fish Meal and possibly 10 per cent. Maize Gluten Meal (which also contains much protein) as well. That formula was not intended for birds on free range in the summer, when they can get so many worms, frogs, etc., as they require. Knock off all animal food until worms get scarce, and put bicarbonate of potash into the drinking water.

If Miss Higgins will do what she was asked to do in "Eggs" of August 9th Miss Knight can tell her something of importance.

J. Mason. Your bird had cancerous growths in the kidneys and lungs. Death was actually caused by internal haemorrhage from the liver, which was soft and diseased. You had better handle all your birds, and isolate any that are losing flesh, as this kind of cancer sometimes affects whole flocks.

S. Fear. Both the birds had many minute worms in their intestines. They had also peritonitis, due (in each case) to rupturing three small yolk sacs internally. I think that this accident may have been due to irritation from the worms. I did not see any sign of poison. I intend to send an article on "Worms" to "Eggs" very soon, as I have had so many cases lately. You sent the fee for one bird only, instead of for the two.

H. Bushell. To which paper did you wish the report to be sent? The chicken had Coccidiosis. The treatment is one-third teaspoonful of powdered catechu in 1 gallon of water.

J. Smith. Your bird had intense congestion of and haemorrhage in the lining membrane of the gizzard and intestines. There was also a quantity of liquid and gelatinous matter between the two linings of the gizzard. There was also slight congestion of lungs and kidneys. Could the bird have got hold of poison? It looked like a very severe case of poisoning by arsenic.

J. Brown. The bird had double pleurisy and congestion of the kidneys. I should think she had had a severe chill. But you give me no particulars, so it is difficult to judge.

J. Egerton. Your bird had congestion of the lungs, liver, spleen, and kidneys, and a few worms in her intestines. I think there may be some infection, but am not sure yet. Re your mash in 28 lbs., you give 2 lbs. of Fish Meal and 8 lbs. Maize Gluten. As the latter contains a large amount of protein, you are giving nearly one-third protein. I advise you to cut down the Maize Gluten to 2 lbs.

A. C. Loughborough. The W.W. had congestion of lungs, kidneys and spleen. She had also peritonitis, due to having ruptured a yolk sac internally.

The duck had an enormous liver, infiltrated throughout with whitish growth, which may be cancerous. There was similar growth in the spleen. The kidneys were enlarged. The intestines were partly congested and partly black. The contents were frothy. There was slight congestion of the lungs. One small yolk sac was ruptured and several looked unhealthy and contained blood.

As people sometimes expect me to answer questions in "Eggs," I wish to tell them that I have no arrangement with "Eggs" to answer questions. I send in post-mortem reports only.

Wyandotte. This hen also died from internal haemorrhage. A blood vessel near the R. kidney had ruptured, and haemorrhage had taken place into the R. kidney and into the tissues between the skin and the lining of the abdomen and pelvis on the R. side. The L. kidney was enlarged. There was fatty degeneration of the liver and other organs. The "leg-weakness" you speak of was, I think, due to the enlargement of the kidneys. When these organs are

enlarged, they may easily press on the nerves going to the leg, and that would cause lameness or "leg-weakness." This is, in my opinion, a not uncommon cause of this condition, and one which I have never seen mentioned anywhere. Are your birds on free range? If so, they should not have any animal food in the mash at this time of year. You ask what is wrong with your birds or your methods. I know nothing about your methods, so cannot give an opinion. But it seems to me possible that your birds may have a weakness in their blood vessels, so that they give way easily. You know that apoplexy (cerebral haemorrhage) runs in families. Some people's tissues age much more quickly than others, so that one person will be older at 50 than another at 80. I certainly think the bird had a tendency to put on fat.

J. Owen. Your hen had advanced abdominal cancer. Her intestines were matted together and partly obstructed by numerous growths. Similar growths were scattered all over the lining membrane of the abdomen, and there was intense peritonitis. The kidneys were enlarged. There are no special arrangements for post-mortems for members of S.P.B.A.

J. Malcolm. Your bird had a small ruptured yolk sac and peritonitis. She had also congestion of spleen, liver, kidneys and lungs. The spleen was much enlarged, and there had been haemorrhage into it. The bird had a nasal discharge. If I think it is anything infectious, I will let you know next week.

## VALUE OF ADVERTISING.

*Money spent judiciously in advertising is never lost. When you have found the right paper, keep your advertisement running as long as possible, for to secure the best results there must be continuity. Spasmodic insertions does not pay. No trader can make his business known unless he advertises it, but money can be wasted if the wrong form of advertising is adopted. An advertisement in "Eggs" is the right course for you to take, and bear in mind that we have a lower rate for a long period advertisement than for a short one.*

### PROOF THAT IT PAYS.

*"We feel we ought to inform you that your paper has proved a most excellent medium for our goods. We have had a very large quantity of enquiries, a most satisfactory proportion of which has resulted in direct business."—The Leckhampton Quarries Co., Ltd.*

*"Have had good results from my two half-page advertisements, replies from Aberdeen to Isle of Wight."—J. W. Underwood, Loughborough.*

## NOTICE TO ADVERTISERS.

**We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.**

## WHEN DISEASE COMES. How to Safeguard Your Poultry

A most instructive lecture, delivered in a most interesting way, was given on Friday by Mr. Will Hooley, F.Z.A., F.B.S.A., to the pupils and staff of "Heaselands," Mr. E. Bostock Smith's well-known poultry farm at Haywards Heath, Sussex. A large attendance of visitors was also present.

Mr. Hooley congratulated Mr. Bostock Smith on having selected the question of Disease, but from his point of view it was possibly the subject which he liked least of all to talk about, because people who listened to a lecture of this sort began to think that fowls were nothing but feathers and diseases. On many poultry farms disease is never seen, and with proper care and management poultry is one of the healthiest of live stock.

In the treatment of poultry diseases America had always been ahead of us until twelve to eighteen months ago, but now our tests for bacillary white diarrhoea and serum treatment for roup were far ahead of anything yet accomplished. It is not necessary for the poultry keeper to be a veterinary surgeon to deal with complaints, but he must be an observer. How do I know that a fowl is ill? Disease is the first departure from the normal. For instance, the normal characteristic of the comb is that it should be a bright rosy red; if it is blue, grey at tips or black, it shows some departure from the normal. There is the question of the nostrils, which, in a state of health, should always be dry and almost invisible. If there is any blackness with dust adhering, the bird has had a cold, and if you look under the wings you will find a wet patch or the feathers stuck together through the bird wiping its nose there. If one is at all suspicious of roup it can be readily detected by smelling the nostrils. If there is a liquid on the beak it is an ordinary summer cold, and with prompt attention will not develop into roup. In treating a bird it is most necessary to get the liquid right through the slit in the roof of the mouth, and by shutting the mouth quickly and pressing the fowl's head just behind the nostrils a disinfectant can be forced all over the breathing passage and out of the nostrils.

Roup is infectious and contagious, so that all cases must be isolated. The roup germ has not yet been discovered, and it is so small that it will go through a porcelain filter. With roup there is a sticky discharge from the nostrils. Dyptheritic roup forms scabs in the mouth, also patches on the head.

### HOW TO TREAT DISEASE.

Those who attend to disease must do nothing else but keep entirely to that work, and change their clothes every time they leave it. The birds which are affected must be fed quite apart in troughs, and the troughs removed and thoroughly cleaned each time. No dry mash hoppers should be used. The litter in the house must also be removed.

It is necessary to feed well any birds attacked by roup. Half the cases of so-called roup in this country can be traced to poor feeding, which will develop similar symptoms, although it is not the same. A diet which is deficient in certain elements, particularly animal albuminoids, will cause it.

Liver complaints is distinguished by a blueish comb and disinclination to eat. Turkey rhubarb is one of the finest things for liver troubles, a dose being ten drops for a bird weighing 4 to 4½ lbs., and fifteen drops to one weighing 6 to 7 lbs.

There are various diarrhoea amongst chicken, but if they get B.W.D. there is generally something else with it. Perchloride of mercury is the best treatment for B.W.D., but sour milk is also splendid.

A third type of disease may be classed as "Parasitism," which constituted body lice. This can readily be overcome, but fowls frequently get inoculated with a disease through the spreading of lice. At this time of year the egg yield frequently falls off and the price of eggs goes up. It is also the time of the year that red mite is most rampant, and where you get red mite you do not get eggs. Creosote is the best method of ridding houses of this insect, but it is not sufficient to treat the perches alone; the roof and every crack in the building must be done.

A very hearty vote of thanks was accorded Mr. Hooley, who, in replying, said that the Poultry Industry never had brighter prospects than to-day. He admitted that things had looked a little black of late. What business had not, but the depression had only just reached the Poultry Industry. The number of people out of work reached millions and most of these could not afford eggs even if they were at half their present price; it is not that we are producing too many for our needs or that they are coming in from abroad, and as matters improve in the labour world so they must in the poultry industry. Mr. Bostock Smith also added his own experience when, thirty-five years ago, eggs could be bought at twenty a shilling, yet they paid.

Mr. Hooley promised to give a further lecture on other forms of disease at a later date.

## Correspondence.

### FELT HOUSES.

To the Editor of "Eggs."

Dear Sir,—From time to time we hear of Felt Poultry Houses, and there is no doubt they are now used considerably, but I do not think their many advantages are yet sufficiently known.

I do not believe that those who have used well-made Felt Houses would ever again use wood except for young chickens.

The felt house is cheaper, more easily built, and repaired by the amateur carpenter, and remains

taught-proof in all weathers, which the new timber we get now-a-days does not.

There is one other point which I have observed in regard to felt houses—the red mite do not like them, and I have used creosote and tar in abundance in the wooden houses—but the felt houses rarely show any gnats, and an occasional touch up with the creosote rush gives peace of mind to all concerned.

It is surely time the felt house really came into its own.

Yours truly,

R. C. BEATTIE.

#### CONSUMPTION OF FOOD, LIGHT v. HEAVY BREEDS.

To the Editor of "Eggs."

Dear Sir,—If any reader of "Eggs" has ever calculated how much less food a Leghorn consumes in a year than a heavy breed (say a Wyandotte), I would be very grateful if they would pass on their knowledge. I have no doubt that many other readers of "Eggs" would be interested in this.

Yours truly,

E. RIGBY.

#### SPECIFIC FOR DIPHTHERITIC ROUP.

To the Editor of "Eggs."

Sir,—In your Editorial of August 16th you say: "The specific for diphtheritic roup was carbolic acid." This is scarcely accurate, as this was only one of the ingredients used. I use carbolic acid solely in some diseases, such as White Diarrhoea, Coccidiosis, and Enteric, but Roup requires much more. The College authorities asked me for a copy of my leaflet on Roup to be included in the official proceedings of the Conference, where no doubt your readers will find it. I also said that the treatment had perfectly cured a yard in the last six weeks. I have the letter of thanks from the owner of the yard.

Yours faithfully,

GEORGE A. PALMER.

#### REARING CHICKS ARTIFICIALLY.

(To the Editor "Eggs.")

Dear Sir,—I have been very interested in the correspondence on rearing chicks artificially, but there is one point which I think is most important, and which, to my opinion, is not sufficiently considered, i.e., the litter in Brooders and Hovers.

I rear with Pioneer Hovers in 7ft. 6in. x 5ft. houses in lots of 80 to 100, and until I discovered the secret of putting a good inch of damp soil under the chaffed straw, I was always bothered with cramp and foot trouble. There would probably be from five to eight cases in each lot, no matter how deep the litter.

Now, it is a very rare thing, and I am disappointed if I don't rear 99 per cent.

I rear on your dry mash, but prefer no maize in the corn mixture.

I hope, perhaps, this tip may be helpful to some beginners.

Yours truly,

A. S. ESTCOURT.

#### MARKING OF FOREIGN EGGS.

To the Editor of "Eggs."

Sir.—The present low price of English new-laid eggs is the cause of much grumbling amongst poultry-keepers, many of whom protest that it is not now possible to produce eggs at a profit. Grumbling appears to be the only thing that the vast majority are prepared to do for themselves.

Nearly a year ago there was considerable correspondence about the best method of protecting ourselves against unfair foreign competition, which is largely responsible for the continued slump, and of the several suggested remedies, the compulsory marking of foreign eggs with the country of origin, was undoubtedly the most practical, and received considerable editorial support in the more prominent poultry journals. It is to be regretted that the vast majority of poultry keepers were apparently too indifferent to express any opinion, but I venture to think that if any support had been given to the scheme I propounded—to form delegations in every district to call personally on the local M.P., and obtain promise of support to the scheme then projected, and to keep them to their promise—we should not have felt the evil effects of the foreign importation so much.

Surely the reports from our egg markets for the last six months are sufficiently painful reading to make it obvious to every egg producer that it is now imperative that we should get together, and really do something. It is no good leaving it to one or two men whose efforts unsupported can achieve nothing—they must be backed by the industry as a whole. Every one must do "his bit."

The first step appears to be to enforce legislation for the compulsory marking of foreign eggs. No serious attempt has been made to do this. So far we have relied upon the promise of Ministry of Agriculture to support our timid suggestions when the Merchandise Act is passed—and even then we know the old adage about promises and pie crusts. The truth of the matter is that although poultry farming should be one of the most powerful industries in the country it is apparently the most ineffective, for lack of concerted action.

I would suggest that you, Sir, should take a post card census of your readers on this question of the marking of foreign eggs, and if the members of the industry have not sufficient interest to write a post card, and spend a penny stamp, it will, at least, have taught those of us who really do wish to get things done that we must rely on our individual efforts for our individual protection—and let the others "stew."



in their own juice." In any case such a census will show us how we stand.

Yours truly,

H. ATKINS.

Red Comb Egg Farm, Hermitage, Berks.

(We believe that the opinion of poultry-keepers throughout the country is overwhelmingly in favour of the marking of foreign eggs. Had the National Poultry Council not been of the same opinion they would not have taken action. We have never yet attended a meeting or conference in this country where the question has been raised, and any opposition been offered to the proposal, so that we cannot see that any advantage is to be gained by a post-card census, as our correspondent suggests. If he would only try and realise that the National Poultry Council, through its Parliamentary Committee, is doing all that can be done in the matter, and is acting under the best advice available, he would not say, "It is no good leaving it to one or two men." Neither would he say, "The first step appears to be to enforce legislation for the compulsory marking of foreign eggs." It is far easier to say these things than to do them. As a member of the committee, we can assure him that an immense amount of work has been done in order to achieve the desired end, everything is going as favourably as we can expect. Were the poultry industry ten times as powerful as it is, it could not "enforce legislation."—(Editor).

## Market Report.

### MINISTRY OF AGRICULTURE RETURNS, WEEK ENDING FRIDAY, AUGUST 25th, 1922.

**GRAIN AND FEEDING STUFFS.**—Old crop English Corn is very scarce, and only small quantities of the new crops have so far been on offer. Black winter oats have been shown at several places, prices ranging from about 26s. 6d., 27s. 6d. per 336 lbs., but quality has only been moderate. Milling offals are in good demand, and prices are about maintained.

**MILLERS' OFFALS.**—Bran (British): Bristol, £7 5s.; Hull, £6 2s.; Liverpool, £6 15s.; London, £6 15s. Broad Bran: Hull, £7 2s.; London, £8 5s. Fine Middlings (Imported): London, £9 10s. Coarse Middlings (British): Bristol, £9 17s.; Hull, £9 7s.; Liverpool, £9; London, £9 2s. Pollards (Imported): Hull, £6 10s. Liverpool, £7 10s. London, £7 2s. Rice Bran: Bristol, £8; Liverpool, £7 15s.; London, £7 12s. **MEALS.**—Barley Meal: Bristol, £11 5s.; Hull, £11; London, £11 5s. Maize Meal: Bristol, £10 15s.; Hull, £9 10s.; Liverpool, £9 10s. Maize Meal (S. African): Liverpool, £8 17s.; London, £9 7s. Maize Germ Meal: Bristol, £10 5s.; Hull, £9; London, £9 5s. Maize Gluten Feed: London, £9.

### EGGS AND DEAD POULTRY.

Poultry sells at rather easier rates, but eggs are less plentiful and decidedly dearer. Week-end prices, eggs per 120: English New Laid, 19s., 22s. 6d.; Irish, 17s. 6d.; Danish, 17s., 19s.; Dutch, 18s. 6d., 21s.; French, 16s., 19s.; Lithuanian, 12s. 6d., 14s. 6d.; Polish, 11s. 6d., 12s. 6d. Dead Poultry, London Surrey Fowls, 1s. 6d., 1s. 9d. per lb.; Irish, 1s. 3d., 1s. Others, 1s. 6d., 1s. 2d. Ducks, 1s. 4d., 1s.

### EGGS.

Per Doz.—Ashford: First, 2s. 7d.; Second, 2s. 6d. Birmingham: First, 1s. 8d.; Second, 1s. 7d. Carlisle: First, 2s. 0d. Chelmsford: First, 2s. 6d. Derby: First, 1s. 10d. Dorchester:

First, 2s. 6d. Exeter: First, 2s. 0d. Hereford: First, 1s. 10d. Hull: First, 1s. 10d. Ipswich: First, 2s. 3d.; Second, 2s. 0d. King's Lynn: First, 2s. 0d. Lincoln: First, 1s. 9d. Llandilo: First, 1s. 9d.; Second, 1s. 6d. Montgomery: First, 1s. 6d. Newport (Mon.): First, 1s. 11d.; Second, 1s. 9d. Norwich: First, 2s. 0d. Oswestry: First, 2s. 2d. Penzance: First, 1s. 5d.; Second, 1s. 4d. Salisbury: First, 2s. 5d.; Second, 2s. 4d. Shrewsbury: First, 2s. 3d.; Second, 1s. 10d. Skipton: First, 1s. 9d. Taunton: First, 1s. 8d. Truro: First, 1s. 8d. York: First, 2s. 0d.; Second, 1s. 11d.

### FOWLS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 10d. Derby: First, 4s. 0d.; Second, 2s. 3d. Exeter: First, 1s. 10d. Hereford: First, 1s. 6d. Ipswich: First, 6s. 0d.; Second, 4s. 6d. Lincoln: First, 4s. 6d.; Second, 3s. 6d. Llandilo: First, 1s. 10d.; Second, 1s. 4d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 1s. 9d.; Second, 1s. 8d. Shrewsbury: First, 6s. 0d.; Second, 4s. 6d. Truro: First, 1s. 7d. York: First, 6s. 0d.; Second, 4s. 0d.

### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 1d. Derby: First, 4s. 6d.; Second, 3s. 6d. Exeter: First, 1s. 6d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 10d.; Second, 1s. 8d. Shrewsbury: First, 7s. 6d.; Second, 5s. 0d. Truro: First, 1s. 8d. York: First, 8s. 0d.; Second, 5s. 0d.

\* Per Head.

## APPLICANTS FOR MEMBERSHIP.

Earnshaw, Capt. S. E., Rose Villa, Sandford, Crediton, Devon.  
Walker, Mrs. E. Jolimet, North Hykeham, Lincoln.  
Hunt, P., Linsley Cottage, Broseley, Shropshire.  
Sykes, Lt.-Col. H. P., Longford Hall, Newport, Salop.  
Jeffrey, E. M., Orchard Way, Kennington, Ashford, Kent.  
Allen, E. M., Nettlecombe Court, Williton, Somerset.  
Ashton, Mrs. A. S., c/o Ashton and Brookham, The Poultry Farm, Gifford, Cranbrook, Kent.  
Fraser, J. T., Downfield, Brookweir, Glos.  
Poynter, J. F., Cumreu Vicarage, Heads Nook, Carlisle.  
Sherlock, Miss C. A., 37, Argyle Street, Reading, Berks.  
McDonald, J., 26, Springfield Road, Baggins, Cumberland.  
Searle, W. C., 22, Coutts Road, Burdett Road, Mile End, London, N.E.  
Mrs. Miles Tristram, Wingfield Manor, Alfreton.  
Hawkins, T., 51, Bannernan Avenue, Bent Hill, Prestwick, Manchester.  
Warne, Lt. W. G., Rotherfield Court, Henley-on-Thames.  
Kelly, Capt. R. G., Rush House, Rush, Co. Dublin.  
Berthon, J. H. P., Brynhyfryd, Lisvane, N. Cardiff.  
Borrill, J., "Lasswade," Laurel Road, St. Helens, Lancs.  
Bingham, Miss O. E., Maskee, Westland, N. Southampton, Hants.  
Fielding, Mrs. L. M., Littlethorpe Manor, Ripon, York.  
Bazley, Mrs. L. J., Aller Farm, Cullompton, Devon.  
Lindley, R. (Junr.), Handsworth Road, Woodhouse Mills, N. Sheffield.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### THIRTEENTH LIST.

Amount brought forward, ... £624 1s. 2d.

	s.	d.
Fabb, A. ... ..	2	6
Fiern, Miss ... ..	5	0
Macan, Miss D. ... ..	10	0
Salter, H. J. ... ..	10	0
Cunningham, A. ... ..	50	0
Meiggs and Nixon ... ..	20	0

	s.	d.
Cork, W. E. ... ..	2	6
Walker, Mrs. E. ... ..	5	0
Little, Miss S. ... ..	2	9
Searle, W. C. ... ..	2	6
Jeffrey, E. M. ... ..	10	0
Painter, Lieut. D. F. ... ..	10	0
Torrible, J. W. ... ..	5	0
Jones, D. ... ..	2	0
Ashton, Mrs. A. ... ..	5	0
Estcourt, Miss A. S. ... ..	10	0
Dewse, Miss D. M. ... ..	1	4
Barlow, Mrs. E. ... ..	5	0
Prentice, J. ... ..	21	0
Brown, Villiers ... ..	5	0
Priest, H. ... ..	2	6
Baker, W. A. ... ..	2	6
Gregson, H. ... ..	5	0
Frakes, R. ... ..	5	0
Major Disney Roebuck ... ..	10	0
Horsley, W. ... ..	5	0
Muir, J. ... ..	2	6
A Backyarder ... ..	2	6
Early, Mrs. ... ..	7	6
Hawkins, T. ... ..	2	6
L. T. W. ... ..	5	0
Howard, Mrs. J. E. ... ..	20	0
Barclay, W. K. ... ..	10	0
Bird, W. ... ..	5	0
Borrill, J. ... ..	2	0
Vaughan, C. H. ... ..	5	0
Capt. and Mrs. Gillespie ... ..	40	0
Smith, K. Clarence ... ..	5	0
Browne, W. H. ... ..	10	0
Lt.-Col. R. Phyre ... ..	21	0
Henderson, A. ... ..	2	4
Relf, E. J. ... ..	10	0
Newman and Norwood ... ..	100	0
Ballard, Mrs. E. M. ... ..	5	0
Foxcroft, E. ... ..	5	0
E. Lindley and Son ... ..	10	0
Rev. A. R. Runnels Moss, M.A. ... ..	20	0
Dickinson, F. C. ... ..	20	0
Total ... ..	£650	6 1

## THE VENTILATION OF FOWL HOUSES.

By Lt.-Col F. W. HARDY.

The importance of proper ventilation, both by day and night, cannot be too strongly insisted on. It must, however, be arranged in such a way that the birds are free from susceptible draught. Natural ventilation depends on the following factors:—

- (1) Diffusion of Gases.
- (2) Expansion of Gases on Heating.
- (3) Effects of Winds.

(1) Gases in contact with each other always mix, until the mixture assumes a uniform composition, even when they are of widely different densities. The

rate, however, at which gases diffuse varies, being slower the heavier the gas.

Diffusion alone is usually not rapid enough to be depended upon, except for open-fronted houses of very moderate depth. Where birds are tucked away at night at the back of a house, say 10 feet deep, the air around them is bound to be stuffy where this method by itself is relied on, even though the front of the house be fairly open.

(2) The air around the air becomes warmer, chiefly as the result of expiration. This latter air is also moist. From both causes it is lighter, and consequently rises, passing out at the top of the house, and is replaced by fresh cold air from outside. Where are we to put our inlets? Certainly not under the eaves, because here we shall have cold air descending on the backs of the birds while perching. On the other hand, we should not put them at ground level, or the fowls will be chilled when on the floor. The best position is immediately under the dropping boards, against which the incoming air may be made to impinge by adjustable glass windows, hinged below. Incidentally these will materially assist in the lighting of the floor of the house and prevent that accumulation of scratching litter, which otherwise always takes place at the back, from the birds facing the light when at work. Where houses are placed close to the walls or fences, as in so many back yards, little light is available behind, and a cheaper and easier proceeding is to cut rectangular slits in the back, six inches deep, immediately below the dropping boards, and cover them with perforated zinc. This material while admitting air prevents any violent draught. The total area of these openings should be about one square foot for a dozen fowls.

Now consider what happens. Cold fresh air is slowly admitted under the dropping boards—the latter must, of course, be free from holes and cracks—the birds on their perches are therefore protected from draught. The warm and foul air around them rises and passes out at the top, and is replaced by fresh air quite close to them, but without sensible draught. The air is not only constantly undergoing change, but houses ventilated on this system are much cooler in Summer.

(3) Winds—Except in hot weather these tend to make open-fronted houses too draughty. The front must be protected by hinged or sliding shutters, preferable glass, to within two feet of the top. There must, of course, be a hood, while hinged screens of jute hessian, on simple wooden frames, should cover the space above the shutters to within 6 or 8 inches of the top, being placed behind the wire netting and when not in use being fastened back to the under side of the roof with a wooden button.

The jute hessian allows considerable perfilation of air, but no draught can blow through it. The space above it is protected by the hood.

Houses built on the above principles will be found very satisfactory. Provided that the dropping boards are kept clean the air will always be fresh and the fowls free from colds, roup and tubercle, three of the greatest pests amongst poultry, and given proper feeding and attention will reward us with winter as well as summer eggs.

F. W. HARDY.

## BREEDERS' SPECIALITIES.

**ALEXANDER'S  
PEDIGREE POULTRY.**  
W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**ROUGHTON via NORWICH.**

**F. A. HULME,**  
Heathfield Commercial Egg Farms,  
HEATHFIELD, SUSSEX.  
White Leghorns.

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

**MELLIN & SKURRAY,**  
S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.  
Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I. Reds (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

**F. J. HOUGHTON,**  
IVANHOE POULTRY FARM, FRITH END,  
Near FARNHAM.

F. J. HOUGHTON wishes to point out  
that he is unable to fulfil any more orders  
owing to the Extension of his Farm this  
season. But asks prospective customers to  
place their orders Now for White Leghorn  
Sittings, Day-Olds, and Pullets for next  
season, and thus avoid disappointment.

**Miss HARDMAN,**  
Member, S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

**SEND ALONG YOUR ORDER.**

**A MOST**

**PROFITABLE INVESTMENT.**

**IF IT IS ADVERTISED IN**

**"EGGS"**

You can depend on it.

**WHITE WYANDOTTES.**

L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.

Speciality:  
STAMINA AND SIZE OF EGGS.

**E. BOSTOCK SMITH,**  
Member of S.P.B.A., P.R.S. and N.U.P.S.  
Breeder of the Highest Class Pedigree  
Utility Poultry,  
"HEASELANDS," HAYWARDS HEATH, SUSSEX.

Phone—Haywards Heath, 92  
White Leghorns. Light Sussex.  
White Wyandottes. Mendels, Black.  
Rhode Island Reds, S.C. Black Leghorns.

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.  
White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPWAY POULTRY FARM,**  
TORQUAY, SOUTH DEVON.

**Coaley Poultry Farm,**  
GLOUCESTERSHIRE.

COALEY FAWN DUCKS still leading for  
7th month at Bentley, Eggs and Ducklings.  
Pullets, Cockerels, Stock Birds.  
White Wyandottes, Buff Orpingtons.  
White Leghorns. Light Sussex.  
Rhode Island Reds. Black Leghorns.  
E. BROOKE WRATTEN  
(Successor to Miss Edwards).

**HOLMES and HOLMES,**

S.P.B.A., N.U.P.S., L.B.P.S.,  
T.A. FOXDELL, CHALFONT, ST. PETER'S.  
Breeders of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.  
Telephone: Chalfont St. Giles 54.

Have you seen the bargains being  
offered in the classified advertisement  
section?

**EVERY MEMBER OF THE**

**S.P.B.A.**

**SHOULD TAKE ONE OF  
THESE SPACES.**

**WHITE LEGHORN FARM, WOOD  
COTT, MICHELDEVER, HANTS**  
Offers W. Leghorn Yearling, at 10/6  
Year-Olds at 5/6. A limited num  
March and April Hatched Pullets  
Satisfaction and a Clean Bill of H  
guaranteed.  
Bankers: Messrs. Barclay and Co.,  
Basingstoke.  
A. F. C. HOLDWAY.

**R. J. HUBBUCK,**  
Member of S.P.B.A., N.U.P.S., and P  
Pinehurst Poultry Farm.  
Headley, Hants.

White Leghorns, White Wyandottes,  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pen  
Enquiries Invited.

**K. E. FIELD-HAR**

**WHITE LEGHORNS**  
Breeding Hens for Sale in Sept.

**THE LIMBERLOST,  
HEATHFIELD, SUSSEX**

**Mrs. HARRY KENT,**  
Stanbridge Grange, Staplefield, Sussex  
Station: Hayward's Heath.  
Telephone: 23 Handcross.  
Exhibition and Pure-bred Trap-Nested  
Utility Poultry.  
LIGHT SUSSEX.  
WHITE LEGHORNS.  
BLACK LEGHORNS.  
Speciality.—Three Months' Old Pullets from  
15s.  
Illustrated Catalogue Post Free.

**MISS ARGLES, N.U.P.S., B.C.**  
Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years in  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.  
From 10/-, according to age and pen.

**ANSTAY POULTRY FARM,**  
ALTON, HANTS.

**WHEN WRITING ANY OF THE**

**ABOVE RELIABLE BREEDERS,**

**PLEASE MENTION "EGGS."**

**ONE OF THESE SPACES  
COSTS:**

13 weeks, 6s. 6d. per insertion  
26 " 5s. 0d. " "  
52 " 4s. 6d. " "  
(Not less than 13 accepted).

## Classified Advertisements.

### PREPAID RATES.

per word—Minimum charged 1s. Box 1s. extra. Bold Headlines inserted at extra charge according to size as below:—

**Y-OLD CHICKS** ... 9d. extra.  
**AY-OLD CHICKS** ... 1s. extra.  
**AY-OLD CHICKS 1/6 ex.**

Section constitutes acknowledgement of nittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	4
6 " " " "	8
12 " " " "	16

### FOR SALE. PULLETS.

**WHITE LEGHORN** Pullets, three months d. 200-230 strain; 12s. 6d., 15s. each. **I. REDS** and **WHITE WYANDOTTES**, s. 6d., 15s. each. Particulars of others on application.—O. D. Cheesbrough, Carlton, Nottingham.

150 Beautiful Cross-bred Pullets; state equipment; 6s. 9d., 7s. 6d., 9s. each, carriage paid.—Joy, Teall Street, Wakefield.

**BUFF ROCK** Pullets, February and March hatched, 1922, from L2 birds (average 187 ggs); price 16s. each.—Worters, Uplands, Lotherfield, Sussex.

**RHODE I. RED** and **LIGHT SUSSEX** Pullets, March hatched; 9s. each; April, 7s. d.; May, 6s. Carriage paid on six.—Jake-an, 7, Kimberley Road, Fleetville, St. Alban's.

**WHITE WYANDOTTES**, 1922, hatched February and March, sires from L. Williams; from 17s. 6d. to £1 each; approval; deposit with Editor.—Cowlishaw, Oak Lodge, Loudwater, Bucks.

**WHITE WYANDOTTES**, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlishaw, Oak Lodge, Loudwater, Bucks.

**BUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hamleden, Henley-on-Thames.

R.I.B. Pullets (Golden's), March, 1922, hatched; 12s. 6d. each. **WHITE LEGHORNS** Cam Barron's), April, 1922; 10s. 6d. each.—Browett, S.P.B.A., Regent Street, Watford.

### BOURNE S.C. RHODE ISLAND REDS.

Flock average (1921) 175, winter layers, large brown eggs; unlimited grass; Pullets, March, 1921, 8s. 6d.; March, 1922, 10s. 6d. Carriage paid.—Charles Friend, Bourne, Lincolnshire.

**WHITE LEGHORN**, June, 1921, Pullets; just over moult; Barron-Leigh-Barron; 7s. 6d.—Ingall, Cheda, Crawley.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 9d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach **Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16** by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

**LIGHT SUSSEX**, 1922 Pullets, February, March and April hatched; bred from trap-nested stock, 225-180 records, and 242 record cockerel. Prices: February and March, 15s.; April, 13s. Carriage paid on five.—Loaring, Thrapston, Northants.

R.I.B. Pullets; splendid condition; bred from hens with 200 to 250 records; sire's dams, 281 and 299; March and April hatched; from 12s. 6d. each.—D. Hasler, Little House, Frinton-on-Sea.

**WHITE WYANDOTTE** Pullets, April hatched, Metcalfe's strain; from L2 trap-nested hens; too many for laying house; must sell; 12s. 6d. each.—Miss Walker, S.P.B.A., Hayton House, Carlisle.

For Sale, 50 **W. WYANDOTTE** Pullets; March hatched; also 50 **W. LEGHORN** Pullets April hatched, from recorded stock, mated to 260-egg cockerels; Cam's and Barron's. Inspection invited.—J. Gibbons, Cockham Farm, Helmsshore, near Manchester.

**BLACK LEGHORN** 1922 Pullets (Upjohn-American), in full lay; 17s. 6d. each. Also **WHITE LEGHORN** Pullets, in full lay; Cam-Barron, 15s.; 1921 Hens, 8s. Approval.—Dr. G. P. Wilson, Ketton, Stamford.

**RHODE ISLAND** Pullets, April, 1922; 7s. 6d. each; 1921 Hens, laying, 6s. each. All carriage paid.—Balmer, Stapleford Tawney, Romford.

Beautiful **WHITE WYANDOTTE** Pedigree Pullets, record laying strain; March, 1922, 9s. 6d.; April, 8s. 6d. each; carriage paid. Approval.—Balmer, Stapleford Tawney, Romford.

**WHITE WYANDOTTE** Pullets, 5th March, 3rd April hatched (pure Cam's), 20s. each. Approval.—Eccles and Briggs, Fantom Hall, Wickford, Essex.

**LA BRESSE** WYANDOTTES, March hatched, from heavy layers of large eggs (both sides).—Captain Heseltine, Ropley.

### HENS.

20 Barron **WHITE LEGHORN** L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted. 12 Wilson ANCONAS, L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted.—Smith, Normanton Grange, Plumtree, Notts.

**WHITE WYANDOTTE** Hens, 200; Cam, Barron and Latham strains. Also 30 **LIGHT SUSSEX**. All March, 1921, hatched. 6s. each, carriage paid. Approval.—W. F. Morris, Brook End Farm, Abberley, Worcester.

### B. DUNKERLEY FREETON.

Member, S.P.B.A., N.U.P.S., offers 1921 hens. **White Leghorns** (Barron's), **White Wyandottes** (Barron's), **Rhode Island Reds** (Golden's); healthy typical birds for winter eggs and breeding next spring. No culls. Personally selected birds only sent; 10s. each; 57s., six. Also January and February, 1922, **White Wyandotte** Pullets (Tom Barron), splendid forward condition and laying. These cannot be bettered at 20s. each. Everything carriage paid and approval. Satisfaction guaranteed.—Higham Poultry Farm, near Colchester.

Twelve **WHITE LEGHORNS**, 1921, 5s. 6d. each. 1921 Cock, Barron direct, 15s. 6d.—Fidler, Colehill, Wimborne.

### BLACK AND WHITE LEGHORN HENS.

Trap-nested, hatched 1921 and 1920; 10s. to 15s., according to records and age.—Michie, Scaurbine, Whitchurch, Salop.

### STRONG BIRDS, SPLENDID LAYERS.

**WHITE LEGHORNS** (1921), 7s. 6d. each, carriage paid on lots of 10.—For particulars apply to Miss P. Knott, Sunnybank, Wilmslow.

**WHITE LEGHORNS** (Barrons), **BLACK LEGHORNS** (Upjohn - Birkett), **WHITE WYANDOTTES** (Cam's). All records above 130 for nine months. Selected birds only. 15s. and 17s. 6d. each. Make excellent breeding stock. A few 1920 Hens, each breed 7s. 6d. each. Any sent on approval.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

### COCKS AND COCKERELS.

**WHITE WYANDOTTE** Cockerels, 1922; February hatched, from daughters of Cam's Special Pen; 25s. each. Approval.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.



**WHITE LEGHORNS**, from Major Lee's Registered Pens, hatched February; dam's records October 15th. January 15th, 58-65; 10s. 6d. each.—Strong, 7, Pownall Gardens, Hounslow.

**STOCK BIRDS**. 75 per cent. Reductions if taken now. Choice 1922 Cockerels, Wyandottes and Leghorns, Cam, Barron, Snowden; 10s. 6d. and 15s. Two magnificent 1921 Wyandotte Cockerels (Cam), 7s. each.—Scott, S.P.B.A., Orton Waterville, Hunts.

### PEDIGREE R.I.R. (Sc.) COCKERELS.

From Boucher's Pen I., dam's records 279-302. Grand dam Boucher No. 48, sire's dam Boucher, famous 37. Also from Mrs. Schwabe's late Pen II., headed by winner first and special prizes Luton, and fourth Manchester, 1920, from 10s. 6d. each.—Clark, Northbourne, Bransgore, Hants.

### S.P.B.A. TEST WINNERS.

Early February hatched Cockerels from above, 25s. each. Also February-March R.I.R. Cockerels, from pen consisting of grandson world's record layer and non-broody hens, with dam's records 245-286. Boucher's strain; 15s. each. **LIGHT SUSSEX** Cockerels, March hatched, Lister-Tom Marks; 10s. 6d. each. All finest pedigree stock. Full particulars on request.—D. and G. Graddon, M.S.P.B.A., Northwood P.F., Blackhill, co. Durham.

Cockerels. **WHITE WYANDOTTE**, **WHITE LEGHORNS**, February and March hatched; 12s. 6d., 15s. Pedigrees on application.—Harmes, Moneysland Poultry Farm, Crawley.

R.I.R. Cockerels, hatched April 6th, by Boucher sires' sons of his 1,000-egg hen, dam's daughter of his 942 big egg hen; every cockerel guaranteed; price 12s. 6d.—Daniel, 3, Parade, Barry.

Stock Cockerels, grand March, 1922, **RHODE ISLAND REDS** (Crawley's), **WHITE WYANDOTTES** (Barron), from 7s. 6d.; April, 1922, **WHITE LEGHORNS** (Padman's), from 5s.—Richards, S.P.B.A., Stoke Canon, Exeter.

Few Selected **RHODE** Cockerels, from hen laying 66 24oz. eggs in November, December, January; sire Golden's Extra Special Pen direct; 24oz. Egg Pedigree on both sides; 25s. each. Also sturdy dark Cockerels, with 24oz. Egg Pedigree both sides; Stock Boucher direct; 15s. each. **WHITE WYANDOTTE** Cockerels (March), Tom Barron Strain direct; dam's winter record 61 24ozs. eggs. Sire's dam 248 24oz.—260 24oz. eggs; 15s. each. All carriage paid.—Miss Clark, Leafmore, Liss, Hants.

### BUFF ROCK COCKERELS.

February hatched, by E. and F. Hunt, from registered pen; 17s. 6d. each; deposit.—Jannaway, M.S.P.B.A., Cherry Tree Poultry Farm, Sanderstead, Surrey.

Few Pedigree **WHITE LEGHORN** Cockerels, sired by son of a 277-egg hen; toe-punched; 7s. 6d., 10s. 6d.—Particulars, W. P. Graham, Rotherfield, Sussex.

**BLACK LEGHORN** Cockerels (Margerson), April hatched; 10s. each. Specially Selected, 15s.—Miss F. M. Bradley, Mere Hall, Knutsford, Cheshire.

### Dr. BALDWIN'S DIRECT.

**WHITE WYANDOTTE** Cockerels, February and March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 21s. each, carriage paid; September and October.—Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

R.I.R. Cockerels, February hatched, well developed birds of specially good colour, from dam (Measure's direct), with winter record of 68 (24oz. egg.), sired by son of Mr. Boucher's famous hen 37, the world's record layer; 30s. each. (No B.W.D. on this farm).—Mrs. Athol Stuart, M.S.P.B.A., Oaklands, Boxmoor, Herts.

January, February and March hatched Cockerels, **WHITE WYANDOTTES**, Cam's direct, 245-301, by 274; **LIGHT SUSSEX**, Cook's direct, 264-279, by 269; **WHITE LEGHORNS**, Cook's direct, 284-288 by 293; 21s. to 42s., carriage paid. Approval with pleasure.—Palmer, Hillside, Swinton, Rotherham.

**MISS HASLER**, Little House, Frinton-on-Sea, has a few Cockerels for sale from her special pen, with yearly record 281; three winter months 87. February hatched, fine birds, two guineas each; March hatched, from records of 290, 260, and 250, from one guinea; reduction on several.

Early March Crowley-Boucher **RHODE ISLAND** Cockerels, from registered pens; 10s. each.—Arnott, Chevening, Sevenoaks.

Stock Cockerels. Pure **WHITE LEGHORN** (Padman), March; 12s. 6d.; April, 10s. 6d.—Francis, 102, Dunvegan Road, Eltham, S.E.9.

Stock **WHITE LEGHORNS**, dam's 230 upwards; sire's dam 260 24oz. eggs; from 10s. 6d.—Captain Heseltine, Ropley.

### SPECIAL OFFER OF PEDIGREE COCKERELS.

**WHITE LEGHORN**, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 223-255, winter records 79-95; 7s. 6d., 15s. each, according to age. Also few Special from hens with winter records 104-109; £1 each; reduction on several; hatched February-April. Average weight of eggs 24-24oz. Carriage paid.—Bealing, Jesmond Dene, Burgess Street, Bassett, Southampton.

### RHODE ISLAND

Cockerels, pure-bred, March and April hatched, from 10s. 6d. each.—Cuttriss, Milestone House, West Ashby, Horncastle.

R.I.R. February Cockerels, pedigree birds, 12s. 6d. and 15s.—Potton, Friar Street, Shoe-buryness.

March hatched R.I.R., Hunter's Exhibition pen direct; **WHITE WYANDOTTES**, sire from Barron's three-guinea pen (1st prize, King's Lynn), dam's, Cam's best; **BLACK LEGHORNS**, "Measure's," parents purchased from Government's Methwold Training Centre; 10s. each, easily worth double; correspondence invited.—Mrs. Dora Seed, River Poultry Farm, King's Lynn.

### BLACK LEGHORN COCKERELS.

Burn-Murdoch direct; four beautiful birds; 7s. 6d. each. 2 guinea. Approval willingly. Hatherden, Andover.

**SILKIE COCKEREL**, hatched Wyndham Malet, Dale Duck den, Hants.

**WHITE LEGHORN COCKERELS**, sons of Lady Bountiful, 111—eggs, 12s. 6d. each.—High School, Hants.

### APPLIANCES. ROOFING FELT

"Superfelt," Ashwell, Herts.

### WIRE NETTING

Best galvanised. British only; state Superfelt, Ashwell, Herts.

### SUPERFELT

Builds vermin and draught-proof without boards; stamp for sample monials.—Superfelt, Ashwell, Herts.

### GLASS SUBSTITUTE

Samples, stamp.—Superfelt, Ashwell, Herts. Reduced.

### PEAT DUST FOR LITTER POULTRY AND PIGEONS

Also GRITS, Postage paid; 10lbs., either both, 2s. Larger quantities very cheap freight forward.—McEvoy's, Ltd., Mellick.

Two Hearson's **ANTHRACITE** STU (1,000); £9 each. Two **GLOUCESTER CUBATORS** (390), self-turning trays, each, all bought 1920; guaranteed order and condition.—Wrist, Hemel Hempstead.

### GALVANISED CORN BINS

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 24 cwt., 26s. 6d. All have hinged lids. All carriage paid, three or over 5 per cent. off.—Hudson, Sheet Metal Works, Patricroft, Lancs.

For Sale.—One **HEARSON**, 50-60, new, £7. One **HEARSON**, 50-60, in good working order, £5. One **MASCOT**, 30-egg, new; £2 10s. One **TAMLIN**, "Nonpareil" 100-egg, £6. All carriage paid. All with good results this season. Reason for disposing installing larger capacity baters.—Loveless, E. A. S., Wittington Poultry Farm, Nayland, Colchester.

### BREEDING PENS.

Pen Three 1920, and Three 1921 L2 Hens, with grand February cockerel. 24 egg records both sides; pure Boucher's the pen; Two L2 1921 **WHITE LEGHORNS** Hens and Pedigree Cock, pure Padman's 30s. the pen.—Miss Clark, Leafmore, Liss, Hants.

**FITTINGS** and Felts for egg boxes, all size made; state wants; Egg or Chicken Boxes (cheap). Lists free.—Write, Hants, 12, Baldwin Terrace, Peter Street, London.

Sample of the MIDDLESEX TRAP-  
FRONT sent on approval, post free,  
3s. 6d. User writes: "Just what I have  
been looking for, am very pleased with it."  
Will fit existing nests.—Inventor and Maker,  
Bird, M.S.P.B.A., Middlesex Poultry  
Farm, Ramden Heath, Billericay, Agent  
and Cold Breeder. Vacancy for Pupil.

PORTABLE POULTRY  
HOUSES.

For Sale, 6ft. long, 4ft. wide, 4ft. high, with  
inside nest boxes; price, complete, £2 15s.;  
free, £7 18s.; six, £15 5s.; 9ft. long, 5ft.  
wide, 5ft. high, price £5 18s., floor £1 5s.;  
12ft. long, 5ft. wide, 5ft. high, price £8 5s.,  
floor, £1 18s. Carriage paid nearest station.  
J. E. Cook, Highfield, Thundersley, Essex.

EGG BOXES.

24-30 doz. size. Strongly made, varnished,  
iron strapped; cardboard partitions; limited  
number only. Single Boxes, 10s. each;  
for 6, 9s. each; for 12, 8s. each. All carriage  
forward.

WORSSAM and ABBOTT,  
Pyreroff House, Chertsey.

GLEVUM 160-EGG INCUBATOR For Sale,  
1922 Model, perfect hatcher, fitted electric  
light, £7 10s. 0d. Also Four beautiful  
White Leghorn Pullets, April, 1922,  
hatched, full daughters to my Gold Medal  
Winners, 49s. 6d. Carriage paid.—Tom  
Redfearn, S.P.B.A., Middleton-in-Teesdale.

One HANSON-DESIGNED HOUSE, 30 x  
14, bolted, excellent condition. What  
offers? New 1918. One Hebditch, 10 x 14,  
new September, 1921.—Apply Miss Lewer,  
Horeham Road, Sussex.

DUCKS AND DRAKES.

Wilson's RUNNER Ducks and ANCONA  
Fowls, probably world's best appearance;  
coupled with egg production; list free;  
Duck Book, 1s.—Rev. John Wilson, Hutton  
Forest Rectory, Penrith.

PAWN and WHITE RUNNER Duck  
1922 Pullets (Upjohn), bred from Drakes,  
from over 250-egg dams; price 12s. each.—  
Worters, Uplands Poultry Farm, Rother-  
field, Sussex.

WHITE RUNNER Drakes, bred for heavy  
egg production; full brother to first prize,  
Skegness, and third prize in class of 20,  
Tring; 21s. each.—Miss Wigram, Ordsall,  
Bretford.

WHITE RUNNER DRAKE, this year's  
hatch, from trap-nested stock; healthy,  
vigorous; limited number; 12s. 6d. each,  
carriage forward.—Apply, Box 138, "Eggs,"  
94, Farncombe Street, London, S.E.16.

A number of PAWN and WHITE INDIAN  
RUNNER Ducks, 1922 hatched; also unrelat-  
ed Drakes (Upjohn-Shaw), three to five  
months old; 12s. 6d. each.—Tomlinson, Clay-  
ton Poultry Farm, Newcastle, Staffs.

20 WHITE RUNNER Ducks, March  
hatched; 10s. 6d. each, £10 the lot. Carriage  
paid on six.—Wye Lodge, Ashford, Middle-  
sex.

DUCKLINGS (12 weeks), from very heavy  
layers of large eggs; 10s. 6d. each.—Captain  
Heeseltine, Ropley.

AYLESBURY DUCKS EGGS, 6s. doz.; 50,  
24s.—Jakeman, 7, Kimberley Road, Fleet-  
ville, St. Alban's.

Three WHITE RUNNER DUCKS (Tay-  
lor's), laid 629 eggs last year, with drake,  
30s.—High School, Melksham.

PIGEONS.

UTILITY PIGEONS, Mondains, large  
table birds; related to Bingley Hall prize  
winners; 20s. to 30s. pair; Squeakers, 6s.,  
7s. 6d.—Fidler, Colehill, Wimborne.

RABBITS.

Lester Spurgeon, Wistler's Wood, Wold-  
ingham, Surrey, breeder, pedigree giant  
Blue Beverens. Youngsters for sale.

POULTRY FARM.

TO OFFER.—Small Poultry Farm in  
Hertfordshire, in full working order. Runs  
houses, store shed, and all appliances at  
weekly rental of 15s. Tenant to buy fine  
stock at nominal price of £100. Illness in  
family makes it necessary to give up the  
work. Splendid opportunity to begin for  
man who only has small capital.—Apply,  
Box No. 147, "Eggs," 94, Farncombe Street,  
London, S.E.16.

POULTRY FARM FOR SALE. Five to  
ten acres; south aspect, with drained soil,  
half mile two stations; English and R.C.  
Churches; shops; main water, gas, electric  
light, and telephone available. No house.  
£75 per acre. Less for whole acreage.—  
Box 143, "Eggs," 94, Farncombe Street, Lon-  
don, S.E.16.

SURREY HILLS.—For Sale, Ideal Small-  
Holding and Bungalow, 2 rec., 4 bed, bath  
(h. and c.); 10 acres, high ground; beau-  
tiful views.—Sole Agents, Chas. Osenton  
and Co., 134, High Street, Guildford.

FOODS.

OYSTER SHELL.

Best American, f.o.r London, Hull, Man-  
chester, Newcastle, Avonmouth, 6s. cwt.,  
115s. ton; frequent arrivals. Cockle, Flit,  
lowest prices. Samples free.—Midland Grit  
Co., Stourbridge.

GRANULATED  
CHARCOAL.

Guaranteed Quality, half-cwt., 12s.; one  
cwt., 22s., carriage paid. Also Cedar Litter,  
Dried Flies, Grits, Meals, etc. Samples  
free.—Bygrave and Co., Amwell, near Ware.

SPECIAL VALUE IN  
POULTRY FOOD.

GOOD CLEAN WHEAT SCREENINGS, 11s.  
per 112lbs. Guaranteed Sussex Ground Oats,  
17s. per 112 lbs. Bags Free. Carriage for-  
ward.—Marland and Co., Poultry Food  
Millers, Mossley, Manchester.

A LEADING EXPERT SAYS:—

"I am convinced that every progressive  
poultry keeper in this county will use  
MILKO foods once they get out of the rut,  
and understand that a food based on milk,  
is better in every possible way than foods  
based on fish or meat meal or other animal  
matters." All MILKO foods are based on  
specially prepared milk powder, carefully  
balanced with other invaluable ingre-  
dients. They do not contain forcing spices  
or other harmful condiments. Only sound,  
specially selected, meals used. You will  
get better results by regularly using  
MILKO foods. Get a supply of MILKO Lay-  
ing Meal right now. Once used always  
used. £15 10s. per ton, if ordered in lots  
of not less than half-ton at a time. Car-  
riage Paid on two ton lots. Smaller quan-  
tities, 23s. per cwt., carriage paid.—Sales  
Manager, MILKO FOOD COMPANY, Fleet  
House, Fleet Street, London, E.C.4.

Real Quality. LAYING MASH, FATTEN-  
ING MASH, MOULTING MASH, FISH  
MEAL; used by experts; 21s. cwt.; 12s. 6d.  
half-cwt., carriage paid. — Market Corn  
Stores, Teall Street, Wakefield.

DERBYSHIRE LIMESTONE  
GRIT.

3s. 6d. cwt.—Thornhill, Great Longstone,  
Derbyshire.

MISCELLANEOUS.

SUSSEX FOWLS.—Mrs. M. A. Grant,  
Westlands, Horley, Breeder, Exhibitor,  
Exporter all varieties. Winners at all  
principal shows. Exhibition with best  
utility qualities a speciality.

REV. SEYMOUR SHAW, Warcop, West-  
moreland, can offer Young Stock of great  
quality at much reduced prices. White  
Leghorns, Wyandottes and Runner Ducks  
(all colours). Records to 269. Approval.

EDENMORE POULTRY FARM,  
HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large  
birds, splendid records and stamina. Stock  
Birds, all with individual records, to make  
room for young stock. Cockerels, by son  
of Cam's Supreme, and other first-class  
pedigree stock. Table Birds, milk fed. The  
Young Stock has been entirely free this  
season from any form of diarrhoea, or any  
other disease. Casualties from all causes  
under 8 per cent., including weaklings from  
incubators. — For particulars and prices,  
apply to Brig.-General Maconchy, Eden-  
more, Hook, Hants.

F. JOERGENSE, Specialist and Largest  
Breeder of Crows. Stock Birds, Pullets  
and Chicks. — Kennylands, Emmer Green,  
Reading.

25 Early May WHITE LEGHORN Pullets,  
very forward; 12s. 6d. CROAD LANGSHAN  
Cockerels; 15s. Both milk-fed, from trap-  
nested stock. LIGHT SUSSEX Cockerels,  
from 12 dams, by tested sire; 21s. — Major  
Disney-Roebeck, M.S.P.B.A., Hoo Meavy,  
Yelverton.

**PULLETS**, May hatched, 12s. 6d. each; Black, White, Brown Leghorns, W. Wyandottes, B.I. Reds, Sussex, Buff Rocks, Ducks, Drakes, Pure Buff Orpingtons, Runners, Aylesburys, from 10s. 6d.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

For Sale, Small Pedigree Poultry Farm, about 400 Head Stock, White Leghorns, L. Sussex, B.I. Reds, White Runner Ducks. Pullets' records up to 220 end July. Small modern residence and six acres; rent £50. Offers Wanted. Ill-health reason for sale.—Box 135, "Eggs," 94, Farncombe Street, London, S.E.16.

**LIGHT SUSSEX** Pullets, April and May, 1922. Also **WHITE ORPINGTON** Hens, 1921 stock. Price, 10s. to 21s. Room Wanted. Cash with order. 48 hours' approval.—Apply, Capt. J. G. Mudge, Homer Farm, Ipsden, Oxon.

**WHITE WYANDOTTE** Hens, 1920 and 1921, Cam and Parson's Gold Medal Strain; 1922 Cockerels, March hatched, from pen headed by son of Cam's "College Queen," mated to grand-daughters of Cam's Pen 19. A few March hatched from Mrs. Strong's specially selected layers. Three **CROAD LANGSHAN** Cockerels (Ridley).—For prices, etc., apply, Mrs. Anderson, Larchmont, Headley, Hants.

50 **ANCONA** Cockerels, 30 Pullets (P. L. Johnston and Charles Lawson strain); Cockerels, 12s. 6d. separately, £25 lot. Pullets 15s. separately, £18 lot. Also 50 **BUFF ROCK** Cockerels and 50 Pullets (J. H. Cooper strain); Cockerels separately 10/6, £22 lot; Pullets 12s. 6d., or £27 lot. February-March hatched; all beautiful condition birds.—Mrs. Poston, Whitehill, Bordon, Hants.

### BARRON'S PEN,

Having purchased W. Barron's 1921 **WHITE LEGHORNS**, can offer Cockerels and Pullets from same. (For pedigrees see register). Also other breeds. Prices on application.—The Dales Poultry Farm (W. B. Payne, S.P.B.A.), Syston, Leicestershire.

### PULLETS, COCKERELS, HENS, COCKS, BREEDING PENS.

Leading Utility Strains, in White Leghorns, White Orpingtons, Reds, Light Sussex, White Wyandottes, from 7s. 6d. each; guaranteed never had a day's illness.—Scott-Miller, M.S.P.B.A., Clydeneuk Poultry Farm, Uddingston, Glasgow.

1922 Pullets. **ANCONAS** (s.c.), Beresford-Webb-Wilson strain; specially selected for winter laying and large eggs; perfectly healthy; 15s. to 20s. each. Also a few Cockerels.—Lewen Polliott, Bransgore Hants.

I have a few good April hatched **Ancona** Pullets from 15s. 6d. each; May hatched; 12s. 6d. each. Also good early hatched Cockerels, from 15s. 6d. each, from high record hens; on approval; carriage paid.—Chas. Lawson, Sunnyside, Histon, Cambridge.

### WHITE ORPINGTON ONLY.

Write for prices and particulars of our trap-nested stock.—Manager, Westridge Egg Farm, Wotton-under-Edge.

Few Stook Cockerels, **WHITE WYANDOTTES**, March hatched, from Rodwell's best pens; sent on approval; deposit with Editor; only 10s. each; worth 30s. Also dozen W. **LEGHORN** Chickens, six weeks pullets; 35s.; bargain.—A. F. Edis, X.L., Leeds Road, Nelson.

### PUPILS.

The **ELTY POULTRY FARMING SCHOOL**, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outskirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

**VACANCY**, Pupil (ex-officer preferred), Pedigree Poultry Farm, Cornwall; training all branches.—Particulars, Box 134, "Eggs," 94, Farncombe Street, London S.E.16.

Captain Weir can receive Learner on Cotswold Poultry Farm. Moderate terms.—Write, Weir, Wotton-under-Edge.

### PARTNERSHIPS.

**PARTNER WANTED**; married or single; experience and capital essential; to develop fruit and poultry farm, Kent House. Excellent soil and situation.—Box 139, "Eggs," 94, Farncombe Street, London, S.E.16.

**PARTNERSHIP WANTED**.—Gentleman, with some capital and good training, desires to work on a Commercial Egg Farm in south country, with a view to future partnership.—Box No. 133, "Eggs," 94, Farncombe Street, London S.E.16.

### WANTED.

#### PULLETS.

Wanted, Pure 1922 Pullets, Reds, Wyandottes, Anconas, Leghorns.—Lumb, Fairfield, Hebden Bridge.

**NEW LAID EGGS**.—Particulars of quantity and price, to Whetnall, Hatton Felt-ham, Middlesex.

S.c. **RED, LIGHT SUSSEX** Cockerels, February-March, good coloured; state dams' records.—Solomon, Dunlop, Ayrshire.

### LAND WANTED.

In South Counties, with or without small house, about seven acres and outbuildings; suitable for commercial egg farm, or small going concern.—Pinel, The Ferns, Don Road, Jersey.

### WANTED SHORTLY.

**MANAGER**, Small Poultry Farm; experience inessential; married preferred; cottage available.—Box 130, "Eggs," 94, Farncombe Street, London, S.E.16.

### MISCELLANEOUS

**WANTED EGGS**. 100 dozen week tile; not more than four days old for high-class trade.—E. Lindle house Mill, Sheffield.

Wanted **INCUBATORS**, Glevum or Millers, 150-egg size; also Brood Foster-Mothers, same makes, in good condition.—Muller, Bedmington, W. Sittingbourne, Kent.

### COMMERCIAL POULTRY FARM.

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted B.M. or H. and H. **DRY HOPPERS**.—Muller, Bedmington, W. Sittingbourne.

Wanted to Purchase or Rent **POULTRY FARM** in Home Counties, West or of England. For from about hundred to a thousand birds, with or without stock. Small house, about acres of land or more.—Reply with particulars and price to Box 145, "Eggs," 94, Farncombe Street, London, S.E.16.

### POST REQUIRED.

Ex-Service Man, age 23, desires post Poultry Farm, 5 years' experience. Ut Poultry, Breeding, Rearing, and Feeding for Eggs, capable of building all types Poultry Houses, etc. Would build up from start if required.—Write, state wages offered and duties, to Box "Eggs," 94, Farncombe Street, London S.E.16.

### SITUATIONS WANTED.

Lady holding honours' certificate for 12 months' training on well-known Poultry Farm, wishes for Post as Assistant October.—Apply Box 146, "Eggs," 94, Farncombe Street, London, S.E.16.

Farmer's Daughter requires Post as Lady's Poultry Farm as Assistant Housekeeper; domesticated, understands poultry and cooking.—Box 144, "Eggs," 94, Farncombe Street, London, S.E.16.

**LIVE, ENERGETIC MANAGER**, with hatchling, etc., wants Position with opportunities; excellent references; state wages.—Box 140, "Eggs," 94, Farncombe Street, London, S.E.16.

### SITUATION VACANT.

Wanted, experienced **POULTRY MAN** or **POULTRY WOMAN**; knowledge of carpentry, to take charge large flock.—Muller, Farm, Oakwood Hill, Surrey.

## GOOD REASONS WHY YOU SHOULD SUBSCRIBE TO "EGGS."

1. It is published not for financial gain, but solely in the interests of the Poultry Industry.
2. The Council of the S.P.B.A. only desire to meet working expenses. They have no shareholders clamouring for dividends to face.
3. Consequently they can afford to refuse and do refuse to accept advertisements except from firms of established reputation upon whose goods they can confidently rely.

Come then and share their knowledge.

Help us to help you.

## Feeds with Guaranteed Analyses

Every bag of FUL-O-PEP Feed is of uniform quality, and ready to eat. Years of scientific research and practical tests by the world's greatest cereal experts are behind these Poultry Feeds. They are a perfect blend of the finest egg-making, conditioning, or flesh-producing materials.

The FUL-O-PEP Feeds used in the FUL-O-PEP way save all anxiety. They are proved everywhere to take less time, and give better results than any other feeds.

Write for a free copy of our FUL-O-PEP Year Book (Guide & Calendar), and you will be at once enrolled a member of our Free Advice Bureau. State your difficulties and our Poultry Expert will gladly help you.

### DRY MASH.

This fine, egg-producing food is always before the birds, yet they cannot over-eat. Contains everything, including green food.

### GROWING MASH.

For pullets till matured or six months old. This feed has been found to produce more pounds of gain in weight on less feed than any other feed on the market.

### SCRATCH GRAINS.

The highest quality "scratch feed" on the market — contains corn, wheat, buck-wheat, barley, sunflower seed, etc. Just right for the hens' upkeep.

### CHICK FEED.

A most carefully blended feed, comprising oatmeal, wheat, corn, etc. Given the FUL-O-PEP way, it ensures the life of almost every chick hatched.



# FUL-O-PEP

POULTRY FEEDS

QUAKER OATS Ltd.

Finsbury Square, London, E.C.2.

## The Inheritance of Fecundity in Fowls

By OSCAR SMART.

# 5/6

POST FREE.

CITY & SOUTH LONDON PRINTING  
AND PUBLISHING Co., Ltd.

94, Farncombe Street,  
London S.E.16.



N.U.P.S. and  
S.P.B.A.

# Miss D. E. KITCHIN,

## BREEDER OF PEDIGREE LAYING STRAIN

Rhode Island Reds (S.C.) Pen 198. Gold Medal Winners National Laying Test, 1919-20. Pen 69. 1st Northern Laying Test, 1920-21.

Offers a Limited Number. Stock Cockerels (well-grown birds, good colour) from the above and other pens from 30s. each.

1921 Hatched Hens from 10s. 6d. each.

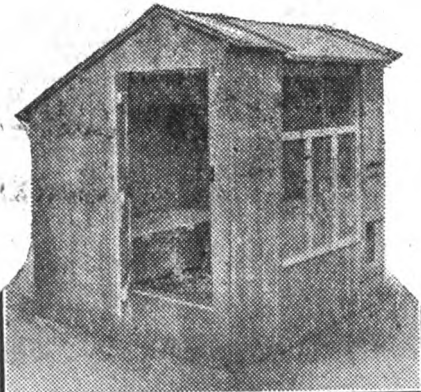
1922 Hatched Pullets from 12s. 6d. each.

Also White Wyandottes and White Leghorns.

Stamped envelope for particulars to

## VICARAGE POULTRY FARM, Hardingsstone, near NORTHAMPTON

### The 'QUENIBOROUGH'



A most Useful Poultry House, well and substantially built. Complete. No Extras.

5ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6  
8ft. x 6ft. x 6ft., £7/0/0. Floor 21/-.

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT. A., QUENIBOROUGH, LEICS.

**Mrs. PIERCE-GROVE, M.S.P.B.A.,**  
**N.U.P.S., STOKE COURT.**

Breeder Utility White Leghorns and White Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pens.

FOR SALE.

WHITE LEGHORN COCKERELS.  
WHITE WYANDOTTE COCKERELS.

Early February and March hatched, splendid, well-matured, and vigorous birds, bred from my own well-known strain 1921 hens, mated to magnificent cockerels (proved splendid breeders), imported direct from Solly's famous egg farm in British Columbia. These cockerels guaranteed from dam 280 specially large egg.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best, 3,000 Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply to The Earl of Eltham, Stoke Court, Stoke St. Mary, Taunton.

By direction of Mr. E. RELF,  
M.N.U.P.S., S.P.B.A.

### COTTAGE FARM, SPEEN, PRINCES RISBOROUGH

The First Draft Sale of nearly 500 Head of PURE-BRED UTILITY POULTRY, principally this year's EARLY PULLETS, the remainder being breeding pens of 1921 Birds, comprising:

LIGHT SUSSEX.

WHITE WYANDOTTE.

BLACK AND WHITE LEGHORNS.

RHODE ISLAND RED.

and ANCONA.

Named Strains. Also

Bacon and Store Pigs and Pedigree Bull Terriers and POULTRY APPLIANCES.

**Messrs. R. E. GOSSLING and REDWAY** Will Sell the above by AUCTION on the Premises, on THURSDAY, SEPTEMBER 7th, 1922.

At 1.30 o'clock precisely.

A Conveyance will leave Princes Risborough Station at 11.15 and 12.15 on the day of Sale.

Catalogues may be had of Mr. Relf, or the Auctioneers, at their Offices, MARKET PLACE, PRINCES RISBOROUGH.

Telephone: 31.

Try us for your WET AND DRY WASHES. made to your own requirements.

We offer the following:—

	per cwt.
NEWMAN'S POULTRY MASH	15 0
MIDDS	11 0
BEAN BROAD	11 0
BEAN ORDINARY	8 0
MAIZE GLUTEN FEED	12 0
SUSSEX GROUND OATS	20 0
BISCUIT MEAL	22 0
CLOVER MEAL	18 0
ENGLISH CLIPPED OATS	16 0
Special Line Best MEAT MEAL	21 0

Everything for the Poultry Keeper kept in Stock.  
Bags Free and Free on Rail. Cash with Order.

**DRAKARD & CO., Ltd.,**  
Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

PEDIGREE STOCK FOR SALE

### HILLCREST POULTRY FARM (Established 1916).

**BASILDON, ESSEX.**

An Exceptional Opportunity of Obtaining Special Birds for Breeding.

Our 1922 Special Breeding Pens, consisting of 90 (1920) White Leghorn Eggs, sired by Tom Barron Cockerels, and the famous LADY EGLANTINE (1921) W. Adams' Laying Competition Winner, from hens, by Sons of the H. Adams' Laying Competition Winner. Price, 7s. 6d. each. Also 100 (1921) W. Leghorn Pullets, by the above 7s. 6d. each.

Special White Leghorn Cockerels (March, 1922), by Tom Barron, and LADY EGLANTINE. Others from 6s. Special Pens, by sons of Cam's 26th hen. Price, 15s. each.

Special R.I.R. Cockerels (March, 1922) by Very Special Boucher Cockerels, of a 942 eggs in four years hen. Price, 15s. each.

Khaki-Campbell Drakes, from sires Captain Long's famous Bentley Lay Competition Winners. 15s. each.

All Breeding Pens on our farm have been sired by birds from hens of guaranteed trap-nest record since it was established.

Fuller Particulars on application to  
G. WELLER, Manager

**MIDDLESEX OFFICIAL OPEN  
LAYING TEST.**  
Commencing November 1st, 1922.

VALUABLE PRIZES.

For full particulars and Entry Forms apply to  
**HEARNE HOUSE POULTRY FARM**  
HAYES, MIDDLESEX.

"Eggs" gives to Advertisers  
and their goods a prestige and  
quality reputation that no other  
publication can give.

# BEST ENGLISH RINGS

These are NOT the Cheap Imported but English Made.



LARGE STOCKS HELD.

## SPIRALS IN TEN COLOURS.

1. Green, Light Blue, Violet, Dark Blue, Yellow, Pink, Brown, Black, White. AT BANDS, in 10 plain colours, 5 stripes. Aluminium, any Number and Year.

### ALL ONE PRICE.

y-Olds	500	400	300	150	100	50	25
months	10/-	8/-	6/-	3/-	2/-	1/3	1/9
1/2-Grown	13/9	11/-	8/3	4/3	3/-	1/9	1/3
1/4-Grown	15/-	12/-	9/6	5/-	3/6	2/-	1/4
1/8-Breeds	25/-	20/-	15/6	8/3	5/9	3/-	1/9
1/16-Breeds	26/-	21/-	16/6	8/9	6/3	3/3	2/-

All Subject to 5 per cent. Discount. An Extra 5 per cent. to M.S.P.B.A. Post Free.



FULL LIST POST FREE.

These are not the Imported, which are much too flimsy.

## VERMICIDE.

most powerful Killer of Vermin and all parasite life, a good disinfectant for incubators, Brooders, Houses, etc., etc.

### ONCE USED, ALWAYS USED.

Pint. 2/6; 1 Quart, 4/6; 2 Quarts, 5/6; Gallon, 8/6. Carriage Paid. Less 5 per cent., S.P.B.A.

## PENETRAS.

### FINEST PRESERVATIVE ON THE MARKET.

Not the Ordinary so-called Crocoates. or 2 gals., 3/3 gal.; 5 gals., 3/- per gal. 40 gals. (or about), cask £2 10s. 8d. Free. Cask Charged. Car. forward. Less 5 per cent., S.P.B.A.

## FENCING STAKES.

Per 12. Pointed and Penetrated. 4ft., 8/6; 5ft., 7/3; 5ft., 8/-; 6ft., 8/6; 6ft., 9/3; 7ft., 10/-; 7ft., 10/6. Less 5 per cent., and an extra 5 per cent. to S.P.B.A. All Carriage Forward.

## GALV. WIRE NETTING.

24in. 36in. 48in. 60in. 72in. 17/2 24/5 32/7 41/7 48/9 19/6 14/3 19/- 23/8 28/6 7/11 10/11 14/6 18/2 21/9 or Roll, 50 yards. Carriage paid orders £7. 2s 2d per cent. and an extra 2d per cent. S.P.B.A.

## FINE BISCUIT MEAL.

Used on my own farm. Splendid Egg producer and doubles its bulk, 24/- cwt. Carriage paid.

Reduction on ton lots. FLINT GRIT, 5/6 cwt., carriage ford. OYSTER SHELL, 10/- cwt., carriage ford. COCKLE SHELL, 7/9 cwt., carriage ford. Less 5 per cent. and an extra 5 per cent. S.P.B.A.

## TRAP-NEST FRONTS.

One of the Simplest and Noiseless Traps on the market. 6 each, post free. Six or more, 4/- each. Reduction on large quantities.

A. SYDENHAM HANNAFORD, M.S.P.B.A.,

the Leading Maker of Good Appliances in this country.

Hamworthy Junction, Dorset.

# E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

## WHITE WYANDOTTES. RHODE ISLAND REDS. WHITE LEGHORNS.

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Disease.

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

PULLETS

TESTED BREEDING HENS

STOCK COCKERELS

All ages.

Complete Trapnest Records

Guaranteed Pedigrees from 400 to 1,000 egg hens.



## The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN, The Beches, Fyfield HORSHAM, SUSSEX.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches. 1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.

Trap-Nesting Record Books, 6/-.

Matching Record Books, 7/6 and 11/-.

Stud Books for Fowls, 6/-.

Incubator Records, 1/3 doz.; 7/- per 100.

Backyarder's Complete Record, 8d.

Specimens Free.

## RIPPIN & BAKER,

THE NEWARKES, LEICESTER.

# THE SIMPLE LIFE.

Will suit your live stock better than all the complexities that are the outcome of man's ingenuity. And this applies more particularly to the question of

## FEEDING.

Our Simple Poultry Mash—to Newman's formula—cannot be equalled for Simplicity, Economy, and Results, and which we have proved by feeding to our own stock of Ducks and Poultry for nearly twelve months.

Despite the advance in Middlings and Maize by-products, we are still offering this Mash at 15s. per cwt., £14 per ton. Bags Free, and Free on Rail.

## BUT

If you prefer to feed the older and better known foods, we can offer you GRADED BISCUIT MEAL at 25s. per cwt., and BISCUIT POWDER, at 19s. per cwt. Bags Free and Free on Rail.

We have also in stock all the other Goods as advertised in previous issues.

Remember we are out to serve you always with the best possible goods at the lowest possible price.

Write Us or Phone 51.

FRANK SHEARN & CO., LTD., MIDSOMER, NORTON, SOM.

Practical Poultry and Duck Keepers

# NOTE THESE PRICES!

Then compare QUALITY and NUTRITIVE VALUE in relation to the food you now use.

## POULTRY FOODS

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

## MEALS

Maize Meal (fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dari, Barley, Oat Feed, Barley Meal, Biscuit Meal (Poultry), Service Meal (fine), Cockle Shell, Flint Grit, Mixed Grit, Pure Oyster Shell, in K. and E. Sizes.

Prices on Application.

Resolve to try these ECONOMIC QUALITY FOODS to-day. Order through Secretary, S.P.B.A., and get your discount.

The Service Food Co. VICTORIA MILLS GRIMSBY

## RHODE ISLAND REDS.

**MISS N. B. MADDISON, Dane Hill, Sussex.**

WINNER of the S.P.B.A. and "Daily Express" Laying Test.

FIRST OUT OF 100 PENS.

SILVER CUPS, MEDALS, AND OTHER PRIZES GAINED.

A few excellent BREEDING PENS for sale; also COCKERELS and PULLETS.

ALL TRAP-NESTED Pedigree Utility Stock.

### JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
Newbury.

Once again Offers for Disposal  
EGGS AND STOCK BIRDS  
from his

PEDIGREE LAYING STOCK.

SPLENDID SELECTION OF COCKERELS  
and 1921 HATCHED HENS.

in following breeds at 15/- each.

if not approved in three days birds will be  
exchanged or cash refunded.

Croad Langshans, Sal. Faverolle, Houdan,  
White Wyandotte, Silver Campine, Ancona,  
Light and Speckled Sussex, R.I. Red, R.C.  
and S.C. Black, White and Brown Leghorn,  
Buff and White Orpington.

Buff and Barred Rocks and Minorcas.  
Eggs, 6/- per doz.; 45/- per 100. Guaranteed  
90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-  
Campbell Ducks, Eggs 8/- doz. Drakes, 15/-  
each.

White Runner and Fawn Runner Ducks.  
Eggs, 8/- doz. Drakes 10/- each.

All goods carriage paid to any part of the  
British Isles.

LIST FREE.

## PLANOK TRAPNESTS

*The simplest and cheapest on  
the Market.*

Made in sets of two, comprising two  
complete nest boxes and trap fronts.

10/6 per sample set, carr. paid.

7/6 per 3 sets and more, carr. fwd.

7/0 per 25 sets and more, carr. fwd.

These nests also supplied "knocked  
down" or in the flat.

Every Fitting Provided.

Multiples of 10 sets only.

10 sets and more, 6/0 per set, carr. fwd.

20 " " 5/6 " "

30 " " 5/0 " "

Fuller Particulars on Application.

**WORSSAM & ABBOTT**

PYRCROFT HOUSE,  
CHERTSEY.

### ADMIRAL CAYLEY,

Lanarth, St. Kew Highway, Cornwall.

Offers the following:—

#### WHITE LEGHORNS.

6 Cockerels from his No. 1 Pen.

12 Cockerels from his No. 2 Pen.

3 Cockerels from his No. 3 Pen.

#### EXCHEQUER LEGHORNS.

8 Cockerels.

Prices from 12s. to 21 8s. 0d.

Pedigrees Given.

Also some High-Class Breeding Hens, 1921 WHITE LEGHORNS.

Pedigrees 180 to 200.

Prices: 10s. to 12s. 6d.

Early Application is advised.

### SPECIAL LIME STONE GRIT.

NONE GENUINE WITHOUT THIS  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grit.  
(Reg.).

2s. 6d. per cwt., 65s. per ton.

F.O.R. Guaranteed. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Knockock," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. No Grates.

Liberal Commission Paid.



The Henman says "It's"

### BEFORE YOU BUY

Allow me to Quote and Sample you for  
LAYING MEAL, SPECIAL GRAIN MIX-  
TURES, PREPARED GRAIN, and ALL  
FEEDING STUFFS at Lowest Market  
Prices. Foods of Guaranteed Quality and  
Reputation.

Write me your requirements, and get the  
satisfaction your money deserves.

WM. H. FLOYD,  
Poultry Food Specialist,  
KING'S LYNN, NORFOLK.

### THE STRAND HOTEL, Court Farm (Poultry Dept.) STANWELL, MIDDLESEX.

A few White Leghorn Cockerels from  
Imported Pen of Canadian Cock-  
mated to 200-220 Hens, are available  
reasonable prices. March hatched. A  
few Breeding Pens of 1921 Pullets, in  
lay. No trace of B.W.D. has ever  
known on this Farm, and all stock  
guaranteed immune.

Catalogues Free.

# To make sure of 1923 proving a "Better Year."

**A** "BETTER YEAR" depends on more than mere "luck." It depends on the right man working on the right lines with the right material. Ever since I started poultry-breeding I have found each year better than the previous one, and, although I may have had my share of good luck, I maintain that I have *made* them better chiefly by my own efforts. And what has happened in my case will happen in yours *if you make up your mind that it shall*. One of the main things to do is to lay your plans well ahead. Do your "thinking out" while you have plenty of time.

I have selected my birds for my own 1923 breeding, and I have set aside a number of breeding pens for disposal. I advise you to buy your breeding birds now, while you can get the pick. Remember that the value of your 1923 broods will depend upon the stock you breed from, and that one cockerel and 10 hens can produce 500 chicks next season. Therefore, your cockerels should be the best you can afford, and the initial cost will be a small matter when spread over the season's hatch. I practice what I preach, and the results prove the value of my advice. I can offer early 1922 cockerels, all from high record hens, well developed and true to type. They are healthy, hardy birds, brought up under natural conditions on free range. My 1920-1921 hens have been selected from thousands of pullets and have all laid over 200 eggs in their pullet year. Many of them have laid up to 280. I shall be pleased to send you particulars of my breeding pens, and if you will give me a general idea of your requirements, I will tell you just what I think will suit you best. I want to help you "make 1923 a better year."

**Whether you favour  
White Leghorns or Black  
Leghorns; White Wyandottes or Rhode Island  
Reds; Light Sussex or  
Black Mendels; I can offer  
you exceptional value.**

**Whenever possible see  
the birds before you buy.  
Come to "Heaslands"  
if you can; but if not,  
remember that I  
guarantee every bird I  
sell to give satisfaction.**

## F. Bostock Smith

Pedigree Utility Poultry

"Heaslands" Hayward's Heath, Sussex, England.

*Write for Free Booklet "Profitable Poultry."*



**You order to-day,  
WE DESPATCH TO-MORROW.**

Foods exactly as fed to 3,000 Head of Stock  
on our own farm.

This is essentially a guarantee you get  
foods, proved by practical experience over  
many years.

	cwt.	s. d.
V.C. Chick Feed No. 1	25	0
V.C. Chick Feed No. 2	24	0
V.C. Rearing Meal	25	0
(Mix with 1-3rd Midds. and Bran)		
V.C. Laying Meal	22	6
(Mix with 1-3rd Midds. and Bran)		
V.C. Laying Dry Mash	18	0
ALL CARRIAGE PAID.		

**"V.C. NOSHELLAC"  
LIMESTONE GRIT.**

(Now practically free from dust).  
Contains large proportions of essential  
phosphates necessary for welfare of both  
bird and egg.

ONCE TRIED. ALWAYS USED.

The Cheapest of all Grits and the Best.

(No oyster shell or flint required).

1 cwt. Bags	3s. 6d.
18 cwt. Bags	32s. 6d.
20 cwt. Bags	65s. 6d.
40 cwt. Bags	120s. 6d.

Free on Rail, Maidstone.

Ask your dealer to stock it.

**VENN CARR,**  
Dept. 9.  
Maidstone Poultry Farm,  
MAIDSTONE.

A Free Booklet, "How to Make Your Poultry  
Pay?" to each Customer, or 1s., post free.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in  
design, quality and value. His thousands  
of customers proclaim them Best, Best,  
Best, every time.

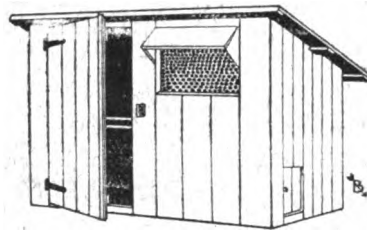
His Exchequer Leghorns are world-  
famous, as the Greatest Utility Breed  
extant.

Grand Early Hatched 1922 Cockerels,  
now ready, on two days' approval:  
25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

— ROBERT MILLER, —  
DENNY, SCOTLAND.

**36/6. F.o.r. Redhill.**



**Special Offer to "EGGS" Readers Only.**

Size, 6ft. long x 4ft. high x 4ft. wide.  
Best Material. Best Workmanship.  
1 Matchboard. Strong Framework.  
Complete Sections. Two Perches.

FULL CATALOGUE ON REQUEST.

Galvanised Corrugated Iron Sheets.  
Best Quality Heavy 26 Gauge, 27in. wide.  
5ft., 2/6; 6ft., 3/-; 7ft., 3/6; 8ft., 4/-; 9ft., 4/6  
per sheet.

WRITE FOR OUR SPECIAL TIMBER  
PRICE LIST.

**The SURREY VALUE CO.,**  
GARLANDS RD., REDHILL. Phone 290.



Please mention "EGGS" when

replying to Advertisements.



**POULTRY BREEDERS**

**DRIED YEAST.**

**Analysis.**

	per cent.
Moisture	8.75
Oil	60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
Mineral Matter	8.38
	100.00

Nitrogen	7.36
Including Sand	.06

**OSSIFIED YEAST.**

**Analysis.**

	per cent.
Moisture	6.66
Oil	12.22
Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
† " Phosphate of Lime	18.88
" Sand and Silicious matter	0.33
Total Food Units	150

**PRICES:—**

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

**NATIONAL LAY  
TEST, 1922-23**

Will commence 1st November

Entries close 11th September

**EXTENDED CLASSIFICATION**

10 SECTIONS FOR PULLETS

6 SECTIONS FOR DUCKS

19 SILVER CUPS AND TROPHIES

Also Gold, Silver, and Bronze Medals  
in each section.

For particulars and Entry  
apply to:—

Hon. Sec. National Laying Test  
G.E.R. Farm,  
Bentley,  
Suffolk

G. R. PINDER, M.S.P.B.A., N.D.

Offers

A Limited Number of BREEDING HENS  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have 12  
records of 46-60 large eggs, and have  
bred since 1913 from the VERY BEST  
1920 Birds: 7/6 each.  
1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time  
to book a good bird bred from individual  
records in W. Leghorns, W. D.  
R.I. Reds and L. Sussex.  
Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range

Full Particulars on Application

Linndsey Poultry Farm, Carlton, Louth.

**S. & J. PARSONS,**  
The Poultry Farm, Musbury,  
Devon.

Breeders of the Highest Class Poultry  
Utility Stock in White Wyandottes and  
White Leghorns.

Stamina and Size of Egg a Speciality

Our birds are consistent winners in  
various laying competitions, which prove  
beyond doubt the question of stamina and  
high-laying quality of our flock.

Breeding Hens from 8/6 each.  
Selected 1921 Cockerels from 15/- each.  
1922 Pulletts from 21/- each.  
1922 Cockerels from 12s. 6d. each.

Our Book, "The Secret of Egg Production"  
3/6.

Further Particulars on Application

We are EXPERTS in all kinds of  
GRAIN and MEAL for POULTRY  
FEEDING and for the PRODUCTION  
OF EGGS.

	per cwt.
	s. d.
CHAMPION MIXTURE	22 0
A.I. MIXTURE (with or without Maize)	20 0
I.B. MIXTURE	18 0
X. MIXTURE	17 0
CLIPPED OATS (Heavy)	20 0
CHAMPION LAYING MEAL	21 0
CHAMPION DRY MASH	21 0
CHAMPION CHICK FOOD, No. 1	27 0
CHAMPION CHICK FOOD, No. 2	27 0
CHAMPION DRY CHICK MASH	23 0
CHAMPION PULLET MIXTURE	22 0
SPECIAL KIBBLED MAIZE	10 0

DISCOUNT:—6d. per cwt. for 5 cwt.  
and over; 1s. per cwt. for 10 cwt. and  
over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and  
SUBURBS DAILY in quantities of 7lbs.  
and upwards to meet the REQUIRE-  
MENTS OF ALL.

NO DUST OR WASTE. Mixed and Well  
Cleaned by Special Machinery.

Samples and Price Lists free on application to

**WILLIAM BRINKLER & SONS, Ltd.**

Pigeon & Poultry Food Dept.,

(5) CLAPHAM GRANARIES, LONDON, S.W.4

Telephone: BATTERSEA 211.

**West Mersea Poultry Farm,**  
**ESSEX,**

Nr COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.**

**Room Wanted for Young Stock.**

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 2s. 6d. each, or Six for £3 9s. 6d.  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records,  
etc., with pleasure.

## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).  
Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituencies of the ration for chicks."

**DRIED BUTTERMILK - 20/- per cwt.**

We are also able to offer a limited quantity of

**DRIED SKIMMED MILK (Powder)**

**In 200-lbs. casks - 24/- Per cwt.**

smaller quantities packed in double bags.

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

**W. MASON, M.S.P.B.A., P.C.,**

Littledale Poultry Farm, Halam,

Near SOUTHWELL, NOTTS.

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
various ages in White Leghorns, White  
Orpingtons, Light Sussex, Anconas (S.C.).

Inspection Invited. Cash or Deposit.

**PURE SWEET STERILISED BLOOD.**

**RENTOX (Regd.)**

1 lb. bag sent post free for 4s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,**  
**BORDESLEY STREET,**  
**BIRMINGHAM.**

**W. A. BAINBRIDGE,**

**Keyneston Manor Poultry Farm,**

**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**

**Light Sussex.**

**Sittings of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.**

**Only the VERY BEST supplied**

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels  
from large egg, high record L2 Hens.**

# KEEP TO THE LEFT

and you will be **RIGHT**.

*This instruction is necessary for the safety of pedestrians, but they are very slow to obey.*



**Poultry mashes suitable for all purposes, as used by some of the most successful poultry farmers of the day, free for card.**

## Use SALUBRENE

(avoiding all Spices as you would the D—L), and you will always be right—is the best advice of Science to all Poultry-Keepers.

For, without a proper supply of the mineral elements of food, there can be no vitamins; and without sufficient vitamins no food can nourish, chickens cannot grow, and hens cannot lay more than a tenth part of the eggs which they have the power to lay.

Read the following:—

(Copy).

Ravenglass, R.S.O.,

Cumberland.

31st July, 1922.

The Algin Company, Ltd.

Dear Sirs,—

I must say that I think Salubrene has been of benefit to my fowls.

I have 42 laying hens—this time last year I had 65.

I am getting more eggs now than I was this time last year (five to eight a day more).

As the feeding, housing, and general management are exactly the same, I am putting it down to the Salubrene. My hens look well, too.

I have not lost one chicken from disease this year, last year they were constantly being picked up dead at from 5 to 10 weeks old.

You may use parts of this if you wish.

Yours faithfully,

(The original of above with name of writer may be seen at our offices).

# Salubrene

Corn Merchants keep Salubrene in packets at 1/3 each.

We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

**A month's supply for 20 birds post free 1/6**

**Full instructions for feeding Salubrene to chickens, layers and breeding pens free.**

**Successful Poultry mashes for all purposes free for card.**

Write to—

THE

**ALGIN COMPANY, Ltd.,**

(Desk E),

**12, Norfolk St., Strand,  
London, W.C.2.**

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank."

August 30th, 1922.

EGGS.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM, LONDON, N.15.

### 1921 PULLETS, 6/- each.

White Leghorns and S.c. Anconas. Proved L2 Birds, and will make excellent breeders for next season. Carriage Paid on Six.

#### STOCK COCKERELS.

White and Black Leghorns and S.c. Anconas. April hatched from L2 stock. 7/6 and 10/6 each. Carriage Paid.

All Birds sent on approval against remittance or deposit.

Crates to be Returned.

MARKHAM, SONS and ALLOTT, S.P.B.A.  
QUENIBOROUGH, Near LEICESTER.

## “EGGS”

can now be obtained from all Newsagents, and we suggest that anyone, who is not already a subscriber, requiring copies regularly, should fill up the following form and hand it to their Newsagent:—

To M \_\_\_\_\_

Please supply me with a copy of "Eggs" every week until this order is countermanded.

Name \_\_\_\_\_

Address \_\_\_\_\_

### NOTICE TO NEWSAGENTS.

If any difficulty is experienced in obtaining "EGGS," please write to the Editor, The Beeches, Rudgwick, Sussex, giving the name of your Wholesaler. Postage will be refunded and arrangements made for you to be supplied.

Copies can always be obtained from the following Wholesale Newsagents:—

Messrs. W. H. SMITH and SONS, Strand House, Portugal Street, W.C.2. Messrs. JOHN MENZIES and CO., LTD., Wholesale Agents, Glasgow.

Messrs. JOHN HEYWOOD, LTD., Wholesale Newsagents, Deansgate, Manchester, and St. Bride Street, London, E.C.

Messrs. HORACE MARSHALL and SON, Temple House, Temple Avenue, London, E.C.4.



**AMERICAN OYSTER SHELL,****Special offer.**

1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 5/9. Free on Rails, Liverpool. Cash with order.

**THE BRITISH AMERICAN SHELGRIE Co.,**

Bank Chambers,

202, MARSH LANE, BOOTLE, LIVERPOOL.

Phone: 696 Bootle.

Telegrams: Poultry, Liverpool.

**"UTILITY" TRADE MARK  
POULTRY FOODS.**

REAL BARGAINS.

Special Offers to S.P.B.A.

	per cwt.	s.	d.
1000 bags Manitoba Feed Wheat	11	0	
500 bags American Dair Seed	10	0	
500 bags Chipped Heavy Oats	11	0	
500 bags Best Mixed Fowl Corn	12	0	
500 bags Best Gluten Meal	12	0	
500 bags Best Quality Fish Meal	14	0	
500 bags Fine Biscuit Meal	14	0	
500 bags Best Sussex Ground Oats	15	0	
500 bags Light Wheat	9	0	
150 bags Coarse or Fine Charcoal	14	0	
250 bags Best Quality White Wheat Meal	13	0	

F.O.B. Liverpool. Bags in. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL.**

Phone: 2586 Royal. Telegrams, "Emphatic."  
Established 1868.

**DR. J. H. BALDWIN,**  
**SPRINGFIELD P.F. WIMBORNE, DORSET**

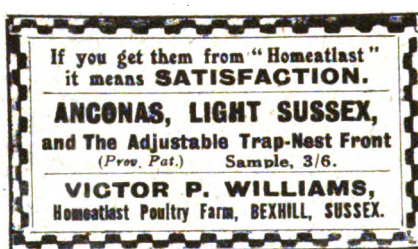
**ONLY THE VERY FINEST STOCK in**

**White Leghorns,**

**White Wyandottes,**

**R. I. Reds (s.o.)**

**Bred from PENS of TESTED PARENTS,  
and PENS headed COCKRELS bred from  
PROVED L2 Birds.**



Oyster Shell, English or Per  
American Graded - -  
Kent Blue Sharp Flint - -

Free on Rail; Reduction 1 ton and up  
Send 2 stamps for samples.

**F. G. BRANTON, Grit Manufacturer,  
GREENHITHE, KENT.**

**Cerema**  
**MARMITE**  
**for Poultry**

Sent direct to Poultry Farmers.  
In view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

**Better Birds  
—more Eggs**

**THIS** preparation contains the  
important B. Vitamin so  
essential for the health of  
Birds. It may be given either in  
the form of a drink by dissolving  
in water, or the solution may  
be incorporated in the mash.  
Birds will take it eagerly. It  
increases their resistance to  
disease and assists digestion.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**



Wednesday, September 6th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 10. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## CHANGE of ADDRESS of the STANBRIDGE STRAIN

**O**WING to the Increased Demand for Healthy, Well-Grown Birds of Pure Bred Strain, I find my present Farm much too small, and am removing my stock to a Farm of over 100 acres. Below are a few particulars of the Birds, but for full particulars write for Free Illustrated Catalogue to—

**MRS. HARRY KENT,**  
**STANBRIDGE POULTRY FARM,**  
**COURT LODGE, HOVE, SUSSEX.**

## EXHIBITION AND PURE BRED UTILITY BIRDS.

### LIGHT SUSSEX.

1st & Sp., Lewes. 1st & Sp.,  
Redhill. 1st & Sp., Tunbridge  
Wells. 2nd Utility, Crystal  
Palace, etc.

### WHITE LEGHORNS.

1st, Redhill. 1st, Uckfield.  
1st, Sussex Agricultural, etc.



### BLACK LEGHORNS.

1st & Sp., Lewes. 1st Royal  
Counties. 1st, Royal. 1st,  
Tunbridge Wells, etc., etc.

### TOULOUSE GEESE.

### AYLESBURY DUCKS.

**COCKERELS** from **UTILITY PENS**, where type, size and colour are as important as egg-laying qualities. From **21/-** to **£2 2s.** each. Pedigree and Winter Egg Records of Hens supplied with each Bird. All Birds Trap-nested, only **L<sup>2</sup>** Birds bred from.

**PULLETS** from **17/6** to **35/-** each.

Prices for Exhibition Birds on application.

**ALL BIRDS SENT ON 4 DAYS APPROVAL.**



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandotte and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony?

Letter No. 68.

The Duver,  
St. Helen's, I.W.  
May 22nd, 1922.

Dear Mr. Priest,—

The fowls continue to keep up their high average of eggs, as you will see by the record overleaf.

The birds have only your corn and fresh green food.

I am,  
Yours truly,  
L. RAVEN HILL.

(This record for 6 Wyandotte pullets works out at a weekly average of 31 eggs from January to June, no previous winter record having been kept.)

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### ALL "VITA" METAL (THE LIVE TRAPPER). TRAP NEST FRONT

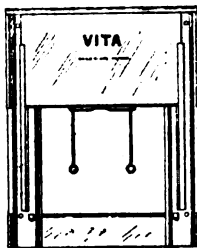


FIG. 1.

INFALLIBLE IN ACTION. VERMIN PROOF.  
THE FASTEST AND MOST SENSITIVE TRAPPER IN EXISTENCE.  
Fitted with Aluminium Drop Shutter Half as Light as a Wooden one.  
CANNOT WARP. CANNOT BREAK.  
THE NEST SHOWN READY FOR TRAPPING, THE FREE SWINGING BOLTING WIRE OPERATING A SENSITIVE RELEASE, AND ALLOWING THE BIRD TO GET WELL INTO THE NEST.

Roderick's Prov. Patent No. 17990.



FIG. 2.

<b>PRICES</b>	Set of 4	-	14/3	Carriage paid	Set of 12	-	-	38/6	Carriage Paid
	Set of 8	-	28/6	"	20 and upwards	-	-	2/9	each

OUTSIDE DIMENSIONS 14½ inches by 11½ inches. Special Quotation for 100 and upwards will be given.

**THORP-RODERICK MFG. CO., 32, Broadway, BEDFORD.**

## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**

**WHITE LEGHORNS,**  
6-to-the-lb. Egg Strain.To clear House  
for Pullets**5/- EACH.**

Will be accepted for 300 Genuine 1921 Hens  
that laid 2,522 eggs last week (October to  
December Records over 48).  
Six and Cockerel, 35/-, carriage paid.  
April 1922 Pullets, from 10/6.

Dept. C. **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

**Bred-to-Lay Strains**

OF

**W. WYANDOTTES,**  
(BARRON.)**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels,  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.E.A.  
Winter Egg Test.

Pedigree, Records and Particulars, per-  
free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

**GRANULATED  
MOSS LITTER**

For POULTRY HOUSES.

8-Bushel Sack containing  
about 20lb., 3s. 6d.; 2, 5s. 6d.  
2, 5s. 6d.; 5, 13s. 2 owt. Balcon  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PRAT MOSS LITTER  
SUPPLY CO., LTD.**

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**TIMBER—What about it?**

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY

1in x 4in. T.G.B.	7s. 6d.	1in x 5in. Sawn Bds.	9s. 6d.	3in. x 3in. Battens	17s. 6d.
1in x 5in. T.G.B.	10s. 6d.	1in x 5in. Do.	12s. 6d.	3in. x 4in. Battens	25s. 6d.
1in x 5in. T.G.B.	9s. 6d.	1in x 2in. Battens	2s. 6d.	2in. x 4in. Battens	16s. 6d.
1in x 6in. T.G.B.	11s. 6d.	1in x 2in. Battens	4s. 6d.	3in. x 6in. Battens	40s. 6d.
1in x 4in. T.G.B.	9s. 6d.	2in. x 1 1/2in. Battens	5s. 6d.	1in. x 4in. Weatherbds.	
1in x 5in. T.G.B. do.	13s. 6d.	2in. x 2in. Battens	8s. 6d.	1in. x 5in. Do.	5s. 6d.
1in x 5in. Sawn Bds.	7s. 6d.	3in. x 3in. Battens	12s. 6d.		8s. 6d.

per 100 feet. CUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mill, SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

Early-hatched s.c. R.I.R. Cockerels and  
Pullets from my Registered Pens (headed by  
sons of Mr. E. C. B. Boucher's World Record  
Hen No. 37, which recorded 1,045 Eggs in  
Four Years), and from other very special  
Matings of Exhibition and Utility Type.

White, Fawn & White Indian Runner, and  
Khaki-Campbell Ducks of my own strains and  
the Finest National Bentley Laying Test  
Blood, and a few Special Fawn & White  
Drakes from Dams which have recorded up  
to 360 Eggs in the year. Also a few special  
Mated Pens.

**A. HAROLD PAINE,**

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry  
Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

**The Chalet, Burgess Hill, Sussex.****SPECIAL LIME STONE GRIT.**

NONE GENUINE WITHOUT THIS  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.)

3s. 6d. per cwt., 65s. per ton.

F.O.B. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Methrobek," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's B.B."



## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.80	Calcium Sulphate	...	aces only
Silica	...	3.08	Moisture, organic matter, etc.	...	3.00
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £3 10s. 6d. per  $\frac{1}{2}$  ton; £4 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 6s. 6d. per cwt.; £1 12s. 6d. per  $\frac{1}{2}$  ton; £3 6s. 6d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

### A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has done more to make them so than

## Tom Barron's

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a cheap proposition for those who have room to bring them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullets.

Profusely Illustrated Catalogue and List sent on request. Postage 2d.

### OF PROGRESS.

## "Poultry Foods and Feeding."

ALSO

"Chicken Rearing."

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

## "An Egg in Every Ounce."

# CLOVER MEAL

### FOR POULTRY.

"Klovers" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.  
Carriage Paid in England.

## ROSSLYN & Co.,

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

## ROBERT MILLER,

The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, every time.

His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

— ROBERT MILLER, —  
DENNY, SCOTLAND.



THE GREEN-GLAZED MEAL PEOPLE.

If you want Autumn and Winter Eggs

Don't let your hens 'hang' in their moult.

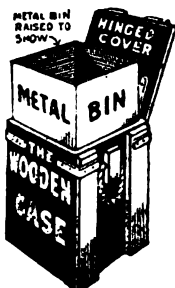
As soon as they have shed most of their old plumage give them our GROWING or FEATHERING MASH for a few weeks; it may easily make a month or two's difference to their starting to lay again.

May we send you our September Price List.

**THE STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

## Govt. Surplus. YOUR LAST OPPORTUNITY!

— A Big Bargain in BINS —



4/3 each } 6 to 12 4/-. 24 to 50 3/9.  
complete } Immediate Despatch.

Don't miss this Amazing bargain. Cannot be repeated!

As shown, sound, unused, 20 $\frac{1}{2}$  x 17 x 17; strong wood cases, painted, hinged cover. Inside removable metal bin, hold nearly 5wt. corn. Rat proof. Hold water. Boon to smallholders.

**THE LEWIS SERVICE (7), 23 Waverley Rd., Redland,**  
**BRISTOL.**

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, September 6th, 1922

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months; 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE TABLE POULTRY INDUSTRY.

One of the most interesting papers read at the Harper-Adam's Conference was that by Mr. J. W. Hurst on the Sussex Table Poultry Industry. Although he hints that the Sussex industry, as such, will not bear imitation in other districts without considerable modification, both as regards methods and prices, and we must realise that he is referring to a highly specialised production, there is much information in the paper which it will be to our advantage to assimilate.

Speaking of the Sussex industry, he said, "The producers consequently benefitted as regards the peculiar skill of the native, the suitability and superiority of the locally prepared foodstuffs, as well as the matter of transport, freightage, and markets. They participated in the general benefits of an organised method of trading, without being bound to any strictly dependent line of action; being, in effect, independent co-operators. These are among the facts that must be appraised at their full value in any contemplated extension of the industry elsewhere."

Those are factors in the success of the Sussex industry which we must keep ever in mind.

But if we are not in a position to imitate these methods in their entirety, we may at least derive some profit by giving a little more attention to table poultry, the surplus cockerel on the majority of plants, is generally sold at a loss, and we cannot afford such losses at the present time.

To some extent we may account for this by the delay in getting the birds on the market, and if this could be avoided, and there seems no practical reason

why it should not be, we may yet be able to find that the surplus cockerel is not altogether the drug in the market which we know it to be now.

Rapid development is of the first importance; this is primarily, but not entirely, a matter of Nutrition, and it involves different methods of feeding immediately the sexes can be detected. It is not intended to deal with this subject here, but the article describing the experiments on the farm of Miss Malcolm and Mrs. Pember will give our readers an idea of what is meant. Even with the early-hatched Leghorn far better prices might be realised if the males were placed on a different diet directly the sexes could be detected.

The Board of Trade figures as quoted by Mr. Francis at the H.A. Conference, show that there has been no increase in the importation of dead poultry since the war. Large quantities used to come from Siberia, but it is improbable that we shall get any more from there for many years to come. These fowls could not compare, of course, with the Sussex speciality, they were not superior to the average surplus cockerel which we send to the market; nevertheless they found our markets, and each year previous to the war showed an increase in the imports.

Professor Punnett's research work in connection with Sex-linked Inheritance will have an increased value if when the pullets are disposed of we can turn our attention to the males; here we can detect the sex at hatching, and we see no reason why in the early part of the year these should not be disposed of at a remunerative price at 10 weeks old. It would necessarily depend to some extent on the nature of the cross, a Brown Leghorn male and Light Sussex hens would be a good one for the purpose. There is little doubt that these recent discoveries in Nutrition should do much to solve the problem of the surplus cockerel.

### THE REARING PROBLEM.

The following is taken from editorial in the July 5th issue of "Eggs."

"This, then, would seem to bring the problem to one of (1) a means of preventing the exhaustion of oxygen by lamp or stove; (2) a means of obviating the massing of chicks. Is it an insoluble problem? Chicks would certainly be breathing a purer atmosphere if they were raised an inch or two off the ground. Could a platform be constructed of slate nailed half an inch apart on which they could sleep, and is it feasible to construct it in such a way as to prevent 'massing'?"

Mr. Leschallas writes: "I notice Dr. Baldwin mentions the 'platform' he took from me to try, in 'Eggs,' August 23rd, p. 108. I haven't heard personally his views, but he sounds as though he liked them. I hope to go over and see him shortly.

After chicks are three weeks old (and sometimes earlier) I raise my hovers and place them on thick

perforated zinc surrounded by a wooden frame. This frame has a series of  $\frac{1}{4}$  in. holes bored in the sides, a little chaffed straw is placed on the zinc. I found the litter under the hovers kept perfectly dry until the chicks were about three weeks old, and then it got damp even if changed almost daily. Presumably sweating. After placing them on the aerated platform, even the droppings were as dry as powder, and the chicks lost that draggled appearance in a few days. The hover is gradually raised week by week until they can do without heat. Also after their first day or two the hover is raised to the roof by a pulley 'toy' winch several times per day. I only tried this with my second hatch with most surprising results. Some little beggars will stay under shelter, and if you drive them out they are back again at once, but if the hover is raised there is nothing for them to do but follow the stronger."

It seems to us that this platform is going a long way towards reducing the mortality amongst young chicks, which during the past few years has increased at an alarming rate.

It is certainly an experiment which is well worth trying, particularly where anthracite stoves are used. There is no need to lay further stress on the fact that where chicks "mass" in a small space the atmosphere must be heavily charged with the carbon dioxide which they exhale, and such a state of affairs necessarily renders them more susceptible to disease. Perhaps some of our readers may be induced to give this an extended trial next breeding season. The state of the litter to which Mr. Leschallies draws attention surely indicates that chicks "sweat" when sleeping on the floor, and we all know how fatal this is.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### IMPORTANT NOTICE.

Members are reminded that the financial year of the Association terminates on August 31st, and all subscriptions are due as from that date.

The subscription is a minimum one of 5s. per annum.

The names of members whose subscription is unpaid by October 15th, cannot be inserted in the Annual Register.

The rules of the Association provide that three members of the Council retire annually, but are eligible for re-election.

Nominations for membership of the Council should be forwarded to the Secretary, not later than Friday, September 15th.

The Annual Register will be published in December, and a copy will be sent to each member whose subscription is paid.

Members who desire to register their birds, should apply to Mr. H. Mudie-Draper, Revesby, Holmfield Road, Leicester, for registration forms.

All applications for advertisement space in the

Register should be addressed to Mr. F. J. Churchyard, 94, Farncombe Street, Bermondsey, S.E.16.

Alterations or corrections of address should be sent to the Hon. Sec. as soon as possible.

Members who desire the S.P.B.A. Badge should send one shilling with their subscription.

### A LIVE BRANCH.

I have received from Mr. R. A. Currie the following account of the show promoted by the Committee of the Wirral Branch. As a first effort it was a great success, and I agree with Mr. Currie the Committee are to be heartily congratulated. Those who have not had experience in organising a show would find it hard to realise what an amount of work it means. I am confident that Mr. Jones, the energetic Secretary, must have felt relieved when it was finished.

"A few weeks ago Mr. Newman was good enough to give some account of the activities of The Wirral Branch of the Association in promoting a poultry show at Birkenhead.

This took place last Friday and Saturday at the Birkenhead Horticultural Show, and created quite a lot of interest. The show was an open one with special classes for S.P.B.A. members, in addition with three silver spoons as prizes.

Remember this is our first effort. The number of entries totalled one hundred and seventy, out of the number one hundred and four were made by members of the Wirral Branch. There were twenty-six classes provided, of these only two were closed for want of entries, and only one had no entries from our members. The winners were in the S.P.B.A. classes: Best cock or cockerel—First and Silver Spoon, R. Howard; 2nd., Jno. Cavan; 3rd., Miss E. G. Jones.

Best Hen or Pullet:

First and Spoon, R. Howard; 2nd., Jno. Cavan; 3rd., Jno. Cavan.

Best Laying Hen:

First and Spoon, W. H. Ebrall; 2nd., W. H. Ebrall; 3rd., R. Howard.

It would take up too much space to give a full list of wins, but I may say that the majority of the prizes were won by members of the branch. The judges were Messrs. Birch and Gordon Lee, and, speaking personally, I think they carried out their duties with great fairness.

Of course, the Committee saw to it that the propaganda side of the show was well to the fore, and a stall with a prominent signboard was quite a feature of the poultry marquee. A large quantity of literature was dispensed and some new members enrolled, and we are hoping to get further results as time rolls on.

Altogether I think the Committee have cause to congratulate themselves on the result of their labours and the possession of a most energetic and capable Secretary, without whom I fear little would have been done.

May I here tender thanks to all those members who have given us their support, and ask for its continuance, and the help of as many more as possible for the coming season.

R. A. CURRIE.

Chairman, Wirral Branch

### THE GENERAL MEETING.

The Annual General Meeting has been definitely fixed for Thursday, October 19th; as last year, it will be held during the Dairy Show. The time is not definitely fixed, but we shall announce that later. Will members please note that Resolutions and Nominations for the Council should be forwarded by September 16th at latest. I receive a great many suggestions in the course of a year, if some of these were put forward as Resolutions at the General Meeting it would be helpful.

### BRISTOL, BATH AND DISTRICT BRANCH.

This Branch met on August 24th, when a very interesting paper was read by Miss W. M. Ransford, dealing with her experiences in the rearing of chickens. As the paper is being published in this issue, it can be more readily appreciated than by inserting a few extracts in these notes.

Miss Ransford was asked numerous questions arising out of her paper, all of which she very ably disposed of.

*The next meeting is on September 14th at the University and Literary Club, Berkeley Square, Bristol (opposite Lyndale Hotel), at 6.45 p.m. sharp, when Mr. Tom Newman will speak on S.P.B.A. work and Feeding.*

There are still a good number of S.P.B.A. members in this area who have not come forwarding to support the Branch. The success of this meeting depends a great deal on the number present. ALL S.P.B.A. members are asked to attend, and, if possible, bring with them prospective new members, thus showing that they not only take a live interest in the work and welfare of the Association, but appreciate the generous way Mr. Newman always places his knowledge at their disposal.

The October meeting is to take place in Bath, details of which will appear later. The Secretary would be pleased to hear from Bath members of any suitable room that could be acquired.

F. T. ELKINGTON (Hon. Sec.).

### REMARKABLE HATCHING WITH LEGHORN BROODIES.

I have received the following from British Columbia:—

"Mrs. Poole set just under 700 eggs and reared 638 chicks, all healthy but one. Of the remaining eggs all but half a dozen were fertile, but a—well, you know what Leghorn hens are as broodies. I had 42 Leghorn hens sitting at once. We had intended using an incubator, but had an epidemic of broody Leghorns so used them. A neighbour had seven dozen eggs from us and hatched 72 chicks in a home-made incubator.

We adopted two of your suggestions with these breeders, fed milk and oats (they had free range over lots of succulent greens), and we took the male away daily for special care."

I am afraid I have not made it clear that this is a quotation from a letter sent to my correspondent and

not to me. The milk and oats were advised for the benefit of the progeny, as the hens nearly all had crooked breastbones. It is remarkable that Leghorn hens should prove such good broodies, and may be truly called an epidemic to have 42 broody at once.

### THE PULLETS.

It is time to get the pullets into the laying houses now so that they may settle down for the winter. The backward birds need a little special feeding, I will repeat for the benefit of new readers the formula which I have always found so helpful: Cover the necessary quantity of good oats with cold water, and let them simmer on the fire until it is absorbed, then dry off with midds and bran. See that they are in a condition to lay. Remember that they must have fat in their bodies to lay, and many pullets are late in starting and lay intermittently because they are not in condition to lay. If you think they are on the light side concentrate the mash. Read Col. Hardy's excellent article on Ventilation which appeared in last week's issue. Colds are very common in the early Autumn, especially with young stock which has not been allowed to perch.

### FORTY WEEKS' LAYING COMPETITION.

Mr. Tom Hudson sends me the following account of the Rawenstall Utility and Fanciers' Societies Forty Weeks' Laying Test. The Test has been run at his farm and under his management, the egg yield has been satisfactory, as has the health of the birds. The feeding has been grain, wet and dry mash:—

### THE WINNERS.

The tenth month brings to a close this interesting competition, and the number of eggs laid during the month were 1,404. The outstand birds were: No. 68 with 26 eggs, Nos. 17 and 61 with 25 eggs each, and No. 33 with 24 eggs.

One bird died during the period, namely, No. 27.

The winners in the Light Breeds are: 1st, Mr. J. O. Maslen, 1869 points; 2nd, Bowker and Brown, 1800 points; 3rd, Mr. E. Smith, 1793 points; 4th, Mr. B. Hargreaves, 1773 points.

The winners in the Heavy Breeds are: 1st, Mr. A. R. Disley, 2117 points; 2nd, Mr. E. Ingham, 1952 points; 3rd, Mr. R. Baron, 1856 points; 4th, Mr. S. Lord, 1762 points.

Many splendid records were made, the best being: No. 81 (214 eggs), No. 12 (203 eggs), Nos. 84 and 90 (197 eggs each), No. 34 (194 eggs), No. 89 (192 eggs), No. 73 (190 eggs), No. 80 (189 eggs), No. 31, (188 eggs), No. 56 (187 eggs), No. 78 (184 eggs), No. 47 (183 eggs), Nos. 7 and 25 (182 eggs each), Nos. 60 and 86 (181 eggs each).

The number of eggs laid during the competition was 13,600, giving an average per bird of 158.13.

### MR. WATKIN'S OFFER.

Mr. Watkins asks me to say that the birds he has offered for sale for the National Poultry Institute Fund are daughters of a 261-egg hen, and sired by a son of a 263-egg hen. The records of the four hens are 230, 236, 238, 241. The first two records were made at the National Laying Test. The best offer at present is £5.



### ANOTHER OFFER.

Mr. L. Fearnside has very kindly offered a B.I. Red cockerel for the N.P.I. Fund. Hatched February 26th from Messrs. Adams and Linkie's best pens. Mr. Fearnside tells me he is a first-class bird.

### CHANGE OF ADDRESS.

Miss E. Lewer asks me to notify members that she has removed her farm to "Sharp's Corner, Horeham Road, Sussex."

## NOTICES.

### MIDLAND LAYING TEST.

Mr. A. H. Brain writes:—"Please mention in next issue of "Eggs" that all entries in our Fourth Midland Test are accepted or returned within five days.

There is no waiting for ballot or acceptance, all breeders know within the above stated time if pen accommodation is available, and if their entries are accepted to compete.

### BRITISH BARNEVELDER CLUB.

Members of the above will notice in the Poultry Press that March (Cambridgeshire) Fanciers' Association, at their Second Annual Show on September 26th are putting on a special class for Barnevelders. This is the first time on record that such has been the case. I hope all members of the B.B.C. who can send birds on exhibition will do so, and make the "christening" a huge success. All exhibits will be judged on utility lines. Anyone who has not yet received a schedule can obtain one from me direct on application.—J. M. Walker, S.P.B.A., Hon. Sec. and Treas., The Ferry, Chatteris, Cambs.

## Foods and Feeding.

By TOM NEWMAN.

This paper is intended for the Novice, and is written at the request of one who has asked me "What is the most important element in feeding."

The most important element in feeding, Sir, is the human element. It has been hinted that the really good feeder is like the poet, born, not made. I think there is some truth in this, because you see such totally different results even with experienced poultry keepers, who are using similar mashes and similar foods. It is not a question of simply getting more eggs, that may not be entirely due to the feeding, but it is the general condition of the stock, and you may be perfectly sure that one is a mechanical feeder and the other an observant one.

Then you get the precise man, he is very methodical in his methods, works at the 1 to 4.5 ratio, is great on decimals, and burns the midnight oil, his birds are fed regularly, very regularly, they have just the right proportion of grain to mash, and everything is done "according to Cocker," but the results are not satisfactory, and more midnight oil is burnt without any improvement being effected. Put not your trust in decimals, they don't help much in feeding, and they always give me a headache.

You see our ideas on the subject of feeding vary widely, and the best of it is we are all confident that we are right.

The point of view is the great thing; now you take this case. A townsman, having a nice sum of money left him, bought himself a nice little house in the country, with a beautiful brass knocker on the door and a very trim lawn in front, with geraniums, lobelias, and marguerites bordering the beautifully kept gravel path, and proceeded to impress the natives, who grinned idiotically and remarked, "We shall see what we shall see." However, to get on, he decided to keep hens, and his wife decided to keep hens too and they agreed to have a little laying competition of their own. Various advice was given them, all of which they took, but eggs were few and far between and the old man began to get a bit annoyed, for it is annoying to have to buy eggs when you keep hens. Finally, after a long discussion, the old man swore he would starve his birds until they did lay, and the old lady, that she would feed hers until they laid, with the result that a higgler bought the lot at a knock-out price one month later, and the records of that laying competition are not available. Now that is very often the view that people take when they keep hens and don't get eggs; I mean that I get letters from one telling me that as he is getting no eggs he is reducing the food and another is increasing it for the same reason, and very often the one is doing what the other should be doing and vice versa.

Now, Sir, the first thing to attend to if you are not satisfied with your egg yield is not your mash but your birds. Handle a few of them, don't run your hand along the breast-bone to feel if they are too fat or otherwise, feel the abdomen; if that is full and hard you are overfeeding or are feeding too concentrated a mash. In that case bulk the mash by adding bran, make the birds scratch for every bit of grain, let them have two hours' scratch in deep litter before you open the mash hoppers, and don't give them much to scratch for. If they are underfed, as will be the case if the abdomen is shrunken and dry, then, of course, you must adopt the exactly opposite course, but don't be satisfied with handling only one hen, as there are always individuals which are inclined to put on fat and that might mislead you. Now recollect that a hen must have fat in her body to lay well. The egg is heaviest at the end of February, and as a rule lightest in May and June; when in these months you find the egg becoming smaller and less frequent, you may well reduce the bulk of your mash, for there is not much fat in the body of the layer then and she wants it.

The state of the droppings is another indication as to whether your feeding is right or wrong. If they are streaked with blood the probability is that there

too much indigestible fibre in the mash, and you will do well to cut down the clover meal or bran; if, on the other hand, they are soft and mustard colour, cut down the animal food, in the latter case, too, the tips of the birds' combs are often black.

Now if you are not satisfied with your egg yield, don't rush off to an expert with details of your mashes without first being satisfied as to the quality of the foods you are using; see that your clover meal is clover meal and not clover chop. I have had a number of letters from a man who was not getting eggs and whose mashes appeared quite alright. When I asked for samples he was using clover chop and crushed oats in place of ground oats, and the mash was so bulky, in consequence that the birds' appetites were satiated without their being able to derive sufficient nutriment from the mash.

#### A NEW CLOVER.

Mr. C. Spiller writes:—"Dear Mr. Newman, I should like to bring before the readers of "Eggs" particulars of a new clover which has been discovered in the States, and which is being tested in various parts of these Islands. It is named Hubam Clover, and its great advantage is its very rapid growth. I sowed seeds on 22nd May last, and, notwithstanding it had no rain for a month after being sown, it is now 3 ft. 6 in. high and just coming into bloom. The fowls eat it with avidity in the green state, and it should prove a great asset in its dried state. From the above you will see it can be treated as an annual. The seed has been sold this year at two dollars the pound, and I believe several firms are stocking it in this country. I enclose a spray herewith."

The spray that Mr. Spiller sends is totally unlike our English clover, there is plenty of leaf, and, as he says, it should prove a great asset.

## EXPERIENCES IN CHICKEN REARING.

(This paper was read by Miss W. M. Ransford at a meeting of the Bristol, Bath and District Branch of the S.P.B.A.)

I would like to make it plain that this is not a paper telling you how to rear chickens, but just some of our own experiences and methods in rearing our own. At the end of the paper I think it would add greatly to the interest of the meeting and be a help if members would make mental notes as I go along and give instances of their own experiences.

I am not going to say anything about incubating which is another subject, but everyone knows how vital the period of incubation is to the after life of the chick. When the conditions have been right or as nearly right as far as is known, the chicks hatch up to time, strong and vigorous to begin life with every possible advantage. How often this advantage is thrown away by wrong feeding and faulty brooding, and the chicks begin to lose that first bloom of health and vigour is known to most poultry keepers.

A hatch means a great deal of work to us. The eggs are all previously separated into pedigree trays, and when the hatch is complete a row of chick boxes are put ready numbered with the individual hen's number or pen number as the case may be. Each chick is then toepunched and put into its respective box and left there for twelve hours. I think this is really a good plan, they are warm and quiet, and have time to recover from the effort of chipping and getting out of the shell.

One other point, when at the Harper-Adams' Conference recently we heard a good deal about toepicking, which many thought was started by putting out toepunched chicks in the brooders before the hole had healed. By resting them in the boxes this danger is avoided, as the hole has dried up and any bleeding stopped.

I should like to say a few words here on the despatching of day-old chicks. There is at present a great outcry about bacillary white diarrhoea. I cannot go into the scientific side of the question, but, as you know, all white diarrhoea is not the bacillary, though from sheer panic it is often taken for it. Chicks that get chills often develop a white diarrhoea which may eventually turn into the bacillary, and I believe the day-old chicks trade in many cases starts the trouble.

Many people will not go to the small extra expense of sending them in really good boxes. A kind we have always found very satisfactory is the "Excelsior," a double box well ventilated, which is lined with hay and padded top and bottom with either felt or newspaper. We hardly ever lose a chick on rail, and according to our customers they arrive warm and happy and ready for a meal. I have seen so many chicks this season, when at the station, in fragile, low square boxes, with large holes and just a little hay on the bottom, the discontented squeaks coming from inside showing their cold and unhappy condition. Chicks arriving in this state, chilled and miserable, are ready to contract any disease germs which may be about.

The most important thing in rearing is to avoid any check whatever from beginning to end. We all know what lack of heat for one night or even for one day in cold weather does for a batch of chicks. A check, however small, may retard growth for weeks, though it may not seem much at the time, and special care and feeding should be given to chicks that have received any set-backs.

We have tried most systems of brooding since we started poultry farming, except the hot-water pipe, which is what we may eventually install.

I find that chicks do very well in the average foster-mother, provided that no more than half the number advertised by the maker are put in, and also that they are moved out in time. This is where so many people make the mistake.

We now only keep two on hand as a stand-by for odd small lots, and I do not consider them ideal either for the chick or their attendant. Kneeling in the pouring rain trimming and filling lamps is not conducive to good temper, and makes the work very trying.

For rearing in small batches as one has to do in pedigree work, I think the metal hovers (not the

metal hen) are very satisfactory, and they are much cheaper than the ordinary foster-mother and more efficient. The sort we have used for some years is Golden's "Perfection," and I have this year reared practically all our chicks with these hovers. I find by experience the ideal number to put under them is sixty chicks, eighty being the limit. As they get older the curtains are removed one by one, and finally the hover itself is taken away. They can be used in a brooder house and also in smaller houses. In the former case when they are taken away the cockerels are picked out and the pullets put into colony houses. In the latter case after the cockerels are removed the pullets are left until they go into the laying houses. This saves labour and is an advantage over the foster-mother. Everyone knows the pleasant evenings spent after moving birds from one house to another. I find it necessary early in the year in cold weather to pack the hovers round with hay outside the curtains for the first few days, leaving an opening on one side for the chicks to run in and out.

I do not consider it advisable to turn out the lamps by day unless the weather is very hot. There are always a few chicks at a time who run in for a rest and a warm up at odd times, which they really need before going off again on their foraging expeditions.

Another system of rearing in use on our farm is the anthracite stove. The make we have is the Stanworth Soole, which is automatically regulated and on the whole answers very well.

I find the losses are generally a little more than when reared in batches of sixty to eighty, but, of course, the labour is much less.

Our stove is for five hundred chicks, and I never put more than two hundred to two hundred and fifty under it which may account for the chicks doing well.

These stoves need careful stoking and managing, but only once did ours get really low, and it has never gone out. I am considering next season the plan of rearing the tiny chicks for the first three weeks in brooder house No. 1 under the "Perfection" Hover, and then transferring them in larger batches to brooder house No. 11 with stove.

When they are old enough to do without heat they will go out on free range in colony houses, the cockerels to one part of the farm and the pullets to another.

We are dry mash feeders from beginning to end. We used to rear on wet mash, but tried dry one year and found it so satisfactory from both the point of view of labour saving and also from the chicks' splendid growth that we have always used it since.

In unusual circumstances, such as very hot, dry weather and with backward chicks, a feed of wet mash mixed with skim milk can be given once a day in addition to the other food. I find it is very much appreciated.

I have had special appliances made for the tiny chicks' dry mash, in the shape of large flat galvanised pans. These have the edges turned inwards like a petrol filter. This saves the mash being scratched out and wasted.

The chicks get a good plain chick feed as advocated in "Eggs" for the first week, with, of course, fine grit, and after the first three or four days green food. We give chickweed, dandelion, clyder, onion tops, and

lettuce when in season. After they are a week old they have dry mash. It is quite a sight to watch them once they have tasted the mash. A miniature football scrum is carried on with terrific vigour, and the amount they put away is extraordinary.

This year I decided to try Mr. Newman's mash given, I think, in January in "Eggs." It was made up with the object of supplying the chicks with the vitamins which have been found so necessary to growth.

The result has been splendid, growth has been rapid and feathering good.

We give skim milk from the first day, and we give it sour. In this state it is lighter and more easily digested, and is supposed to act as a preventative to the dreaded white diarrhoea.

I rarely lessen the bran in the chick mash, very often giving three parts bran to one part stock till nearly full grown. With skim milk and free range I find this is ample, and even then they come on to lay too soon sometimes though they are well grown with good frames. Next season I am thinking of cutting out even the small amount of fish meal they now get for the early pullets, once they are well feathered up and growing on, I shall supply extra Sussex oats leaving them to pick up the balance on free range.

We use a good many Norwich Automatic Feeders for growing stock, the farm covers a considerable acreage, and they save a great deal of labour, and the birds have plenty of food at hand just as they feel they require it.

The grain used after about eight weeks old is chiefly sound wheat mixed with a good quality No. 11 chick mixture for variety.

One final remark on feeding chicks is that we feed sparingly at first till the system is clear of the yolk of egg, some say that the acid in sour milk is of great help in this process. After this they are given an unlimited supply. A heavy layer must be able to take in a big supply of food, and crop capacity is very important.

I cannot go further into the question of feeding. If any of you have read in "Eggs" Mr. Newman's paper on vitamin feeding you will realise what a tremendous amount has yet to be learnt on this question. We saw the birds referred to at the College and the growth was extraordinary, and I may well leave this subject in his hands for further discussion when he comes to visit us next month.

Mr. Newman's Chick Mash:—

- 4 lbs. Middlings.
- 2 .. Maize Germ.
- 3 .. Sussex Oats.
- $\frac{1}{2}$  .. Dried Yeast.
- $\frac{1}{2}$  .. Linseed Meal.
- 1 .. Fish Meal impregnated with 8 per cent. Cod Liver Oil.

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

# A GOLDEN OPPORTUNITY!

250—1920—Leghorn Hens from our Breeding Pens.  
No bird with less than 200 Eggs record in pullet year.

*Every Bird in splendid condition and with a clean Bill of Health.*

**Price 12/6 each**

**Carriage Paid.**

Telegrams:- . . . . .  
Utility, . . . . .  
Wilmslow



Telephone:- . . . . .  
162 Wilmslow

Full Particu-  
lars sent with  
each Bird.

## Lindhurst Poultry Farm

Moor Lane,  
WILMSLOW.  
CHESHIRE

*Inspection  
Invited.*

M.S.P.B.A.

N.U.P.S.

### REDUCED PRICES.

CLARK'S

## PURE SUSSEX GROUND OATS.

GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s.	d.
7lb. Bags	2	3
12lb. Bags	3	3
28lb. Bags	7	6
56lb. Bags	12	9

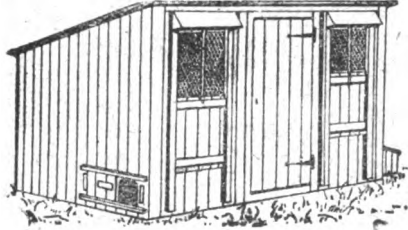
Prices per Cwt.

	s.	d.
1 cwt.	25	0
2 cwt.	24	0
6 cwt.	23	0

Carriage Paid nearest Station in  
England and Wales.  
Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.

## GREAT BARGAIN!



**Only £5 Free on  
Rail.**

This house is 9ft. 0in. x 5ft. 0in. x 6ft.  
0in. high, two sliding shutters and  
attendant's door in front, exit hole in  
end, drop-board and perch, length of  
house, roof felted, creosoted, fitted with  
strong lock, made of selected fin.  
match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 15/-;  
if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**

'Phone: 521 SHIPLEY.

### NOTE NEW PRICES.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.	s.	d.
Dried Buttermilk (for chicks)	20	0	0
Sussex Ground Oats	16	0	0
Maize Meal	11	0	0
Maize Gluten Feed	12	0	0
Pea Meal	16	0	0
Bean Meal	22	0	0
Meat Meal (Fine Ground)	22	0	0
Fish Meal (Best White)	28	0	0
Biscuit Meal (Fine)	22	0	0
Clover Meal	18	0	0
Broad Bran	12	0	0
Middling (Best Fine White)	14	0	0
Middlings (English)	12	0	0
Feed Wheat (Best English)	15	0	0
Feed Oats (Best English)	15	0	0
Kibbled Maize (Sifted)	12	0	0
Flint Grit	5	0	0
Limestone Grit	5	0	0
Oyster Shell	8	0	0
Cockle Shell	6	0	0
Dried Yeast	20	0	0
Roller Wheat (for Chicks)	15	0	0
Pinhead Oatmeal	26	0	0
Whole Oat Groats	26	0	0
Broken Rice	16	0	0
*No. 1 Chick Feed	22	0	0
Mash for Laying Hens	18	0	0

(Both the latter are Mr. Tom Newman's  
Recipes.)

FREE ON RAIL, HEATHFIELD or  
LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.

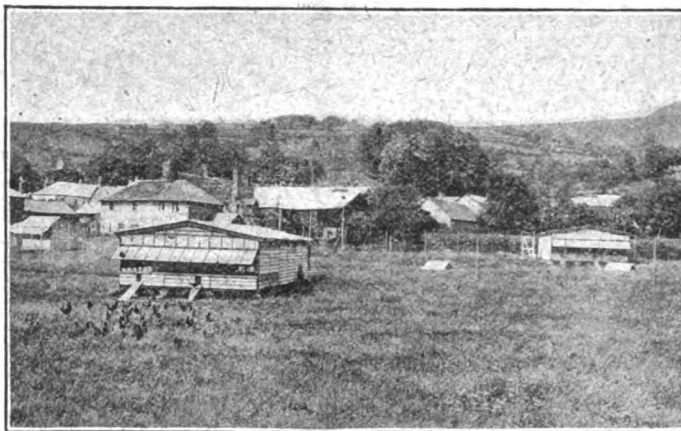
Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX.



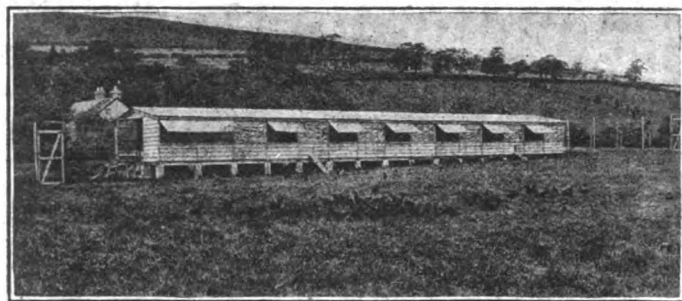
# EXTENSIBLE UNIT BUILDINGS

THE illustrations below show some of the Extensible Unit Houses as adopted by Mr. R. A. Fawcett, of the Radnor Valley Poultry Farm, New Radnor; these were decided upon after very careful investigation of other designs and houses as seen at numerous big shows all over the country.



Mr. Fawcett was determined to commence as up-to-date and advanced a plant as possible. There is a great deal more in the planning

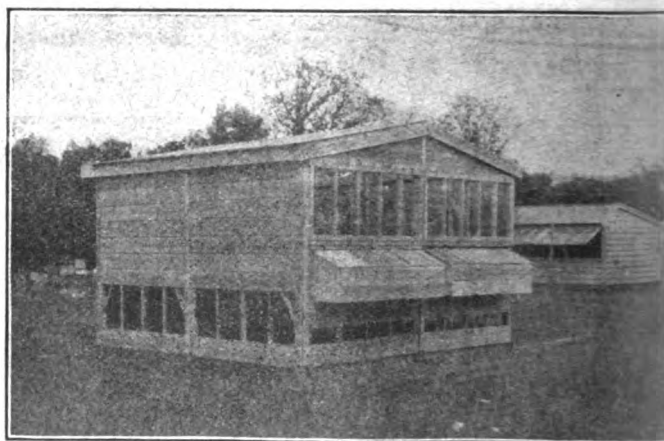
out of a big plant with promise of success that meets the eye of the casual observer. A perusal of the following with illustrations will reveal at once that the entire plant has been designed with great competence and forethought by the owner.



The picture on opposite page displays one of two 6-unit brooder house, 30ft. x 15ft., on Mr. Fawcett's plant. Each of these has night and day nurseries. The former receives only neutral light from the North, while the latter gets abundance of light through big sashes, a fixed, transparent hood, and through bottom lights. These brooders are employed right up to end of rearing stage, when pullets and cockerels are separated, being moved into a 15-unit laying and cockerel house combined, 75ft. x 15ft., also shown.

Both brooders and laying houses are identical in design, and all the panels, doors and sashes are interchangeable; they may be joined, or enlarged, and they are convertible to every possible use. The aim of uniformity has thus been accomplished.

A new feature is specially made steel sashes, which permit variable opening from interior or outside. They add considerably to the good appearance without materially increasing cost.



Mr. Fawcett's breeding pens are uniformly of 10ft. depth, and grouped in pairs of 2 units each—10ft. x 10ft. The F.C. Model shown above is the outcome of searching experiments, and it represents what may be termed as near perfection in handiness of breeding pens. They form a striking illustration of what can be attained with Extensible Unit Houses by an ingenious handyman who studies the character of his birds and his local conditions. New Radnor is nearly 800 feet above sea-level.

All the breeding pens on Mr. Fawcett's plant are also convertible and they may, of course, be enlarged. Though they are strictly intended for breeding only, they can, at a moment's notice, be adapted to other uses as emergencies may demand.

Extensible Unit Buildings, in the hands of prominent breeders, have undergone considerable improvement in design of detail, and the encouraging response by clients has made it possible to appreciably advance workmanship and material.

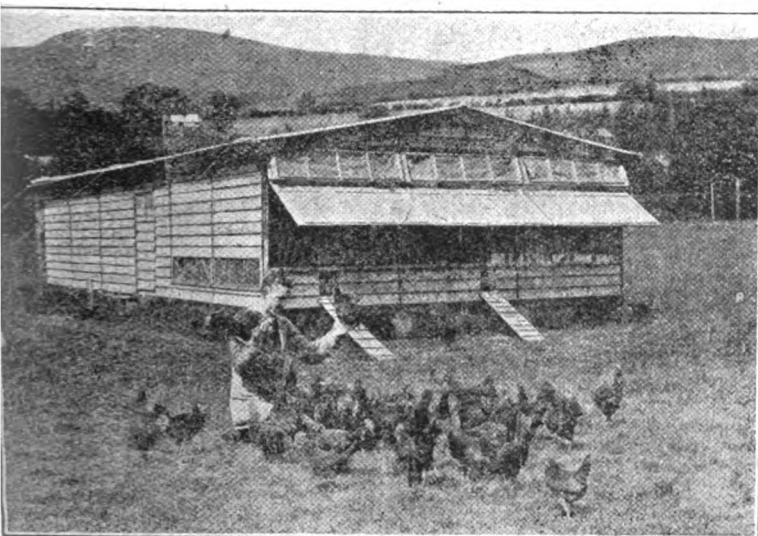
Particulars and estimates free. State your requirements fully, when plans and detail photos will be submitted.

W. H. COLT, M.N.U.P.S.,  
M.S.P.B.A.,

BETHERSDEN, KENT.

# WHAT ABOUT COCKERELS FOR NEXT YEAR'S MATING?

NOW IS THE TIME TO BOOK YOUR ORDERS.



**"Who said WILD  
Black Leghorns?"**

**A** NUMBER of really good BLACK  
LEGHORN COCKERELS  
FOR SALE.

All Birds in topping condition & from  
TWO WELL-KNOWN COM-  
PETITION WINNING STRAINS

WRITE FOR PARTICULARS.

Phone:  
2.  
NEW RADNOR.  
Grams:  
"FAWSSETT,  
NEW RADNOR."

**R. A. FAWSSETT,** Memb. N.U.P.S.  
Memb. S.P.B.A.  
THE RADNOR VALLEY New Radnor, Radnorshire,  
POULTRY FARM,

**COMPARE OUR PRICES ALSO OUR SAMPLES**  
**WHICH ARE FORWARDED FREE ON APPLICATION.**

	Owt. s. d.				Owt. s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa)	18 0	"Moregg" Dry Mash	...	...	17 0
"Moregg" Laying Meal (no Alfalfa)	17 0	Poultry Mixture	...	...	17 6
Pure Sussex Ground Oats	20 0	Poultry Oats (clipped)	...	...	17 6
Pure Alfalfa Meal	22 0	Kibbled Maize (screened)	...	...	15 6
Pure Clover Meal (not Cob or Chaff Dust)	18 0	"Rearall" 1st Chick Feed	...	...	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt)	21 0	"Thryvon" 2nd Chick Feed	...	...	22 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.)	23 0	"Matua" Chicken Mixture	...	...	20 0
Carriage Paid.		Chick Mash	...	...	18 0
					Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret that owing to the short  
crop of GREEN ALFALFA we have been com-  
pelled to raise the price 2s. 0d. per cwt.

**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

MY LATEST ORDERS AND ENQUIRIES FOR POPULAR HOUSES, CYCLE HATCHERS, AND "PIONEER" HOVERS HAVE COME FROM SOUTH AMERICA, BERMUDAS, BARBADOS, ETC.

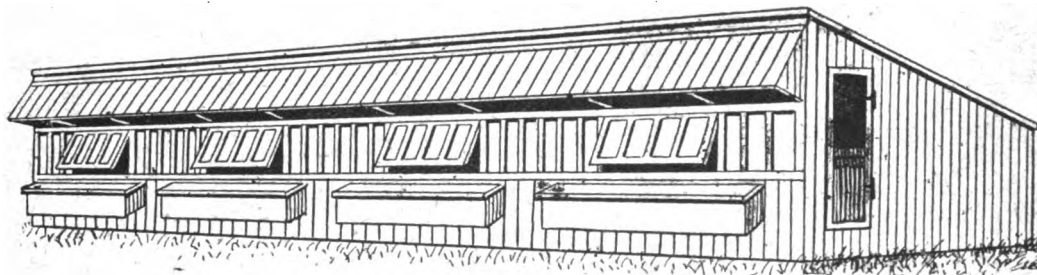
## The "POPULAR" House.

THE MOST COVETED HOUSE AT PRESENT ON THE MARKET.

I HAVE NO NEED TO COMMENT ON ITS SUPERIORITY OVER OTHERS, AS THE ILLUSTRATION PROVES ITS VALUE.

Sizes are guaranteed.

See you get this guarantee from others.



No. 1.	6ft. long, 10ft. wide	£1
" 2.	10ft. long, 10ft. wide	£1
" 3.	16ft. long, 10ft. wide	£2
" 4.	20ft. long, 16ft. wide	£2
" 5.	30ft. long, 16ft. wide	£2
" 6.	40ft. long, 16ft. wide	£2

### FLOOR AND SLEEPERS

No. 1.	...	£1
" 2.	...	£1
" 3.	...	£1
" 4.	...	£1
" 5.	...	£1
" 6.	...	£1

ANY SIZE QUOTED FOR

PENETRATING, the best preservative, IS INCLUDED.  
SLEEPERS, which are penetrated, ARE INCLUDED.  
WATER FOUNTAINS, best galvanised iron, ARE INCLUDED.  
DRY MASH HOPPERS, also best made, ARE INCLUDED.  
BEST 2-PLY FELT ON ROOF, THIS IS INCLUDED.  
DROPPING BOARDS, PERCHES, BOLTS, LOCKS, LATCHES, GLASS, TWO WIRE DOORS to No. 3 Size, and up, IN ADDITION to WOODEN ONES. All Prices. Less 5 per cent. to M.S.P.B.A.

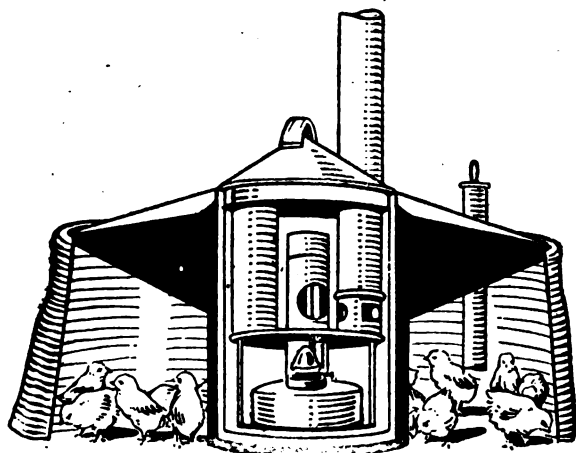
All  
Carriage  
Paid.

IF YOU ARE NOT SATISFIED WITH YOUR PRESENT SUPPLIES, WRITE ME, I WILL GUARANTEE SATISFACTION.

MANY WISE POULTRY KEEPERS ARE MAKING READY FOR NEXT BREEDING SEASON. MEANTIME PLEASE KEEP MY PIONEER HOVER IN YOUR MIND. THERE IS TO BE A BUMPING DEMAND, AND YOU WILL BE WISE TO BE READY.

THE "PIONEER" WILL BE BETTER THAN EVER, thanks to my own Farm.

SHOWING INTERIOR OF HOVER.

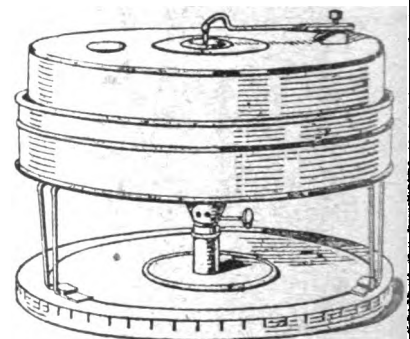


PRICES  
will remain the same  
with greatly  
IMPROVED LAMP.

100 to 150  
Chick size  
£2 10 0 each,  
carriage paid.

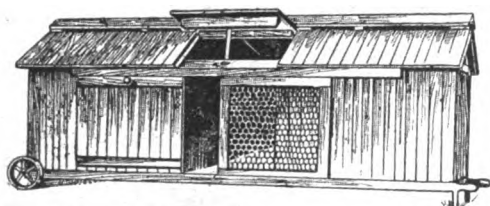
50 to 75  
£2 4 0  
carriage paid.

ALSO BEAR IN MIND  
THE GENUINE CYCLE HATCHER



50 Egg size £3 only. Car. paid.

MY OWN POULTRY YARDS ARE OPEN FOR INSPECTION. YOU CAN SEE THERE HOW THINGS SHOULD BE DONE. I GIVE ALL THE POSSIBLE TO BEGINNERS. VACANCY FOR TWO WORKING PUPILS.



## The "C.A.S.H." Night Ark.

No. 1. 9ft. long, 2ft. 9in. wide, to accommodate from 50 to 60 chicks up to killing size. £4 11s. 3d.; penetrated, 7/6; 4 nests, 16s. 6d.

No. 2. 6ft. long, 2ft. 9in. wide, to accommodate from 30 to 40 chicks, £4 11s. 3d.; penetrated, 6s.; three outside nests, 12s. 6d. Carriage paid and less 5 per cent. S.P.B.A.

I am also now making another design, without wheels, 4ft. 6in. long, 2ft. 8in. wide, 3ft. high, at £2 10s. 0d., carriage paid. This is made with extended handles, which enables it to be moved easily.

**C. A. SYDENHAM HANNAFORD, Hamworthy Junction, DORSET.**

The Leading POULTRY APPLIANCE Maker in this Country FOR SOUND GOODS.

Indian Runner and Khaki-Campbell Ducks.

By A. HAROLD PAINE—Thirty-First Article  
continued.

We now have the report for the ninth month—13th June to 10th July, 1922—of the National Egg-Laying Test at Bentley, and it may be almost a little wearying but certainly none the less satisfactory to state once again that the ducks still lead. The official report on the duck section states that the moulting reported as having become general towards the close of last month is responsible for a heavy decline in the egg records for the ninth month. This decline was accentuated by an outbreak of colds of a highly infectious type which affected practically the whole flock, but from which the ducks recovered with remarkable rapidity. With a very few exceptions, all the ducks were quite well again in three or four days, but the treatment necessitated undoubtedly stopped production in many cases.

Only 52 birds were laying at the close of the month. A striking feature of the moulting of ducks is the rapidity and ease with which they go through the process. As an example, the case of No. 60—Captain

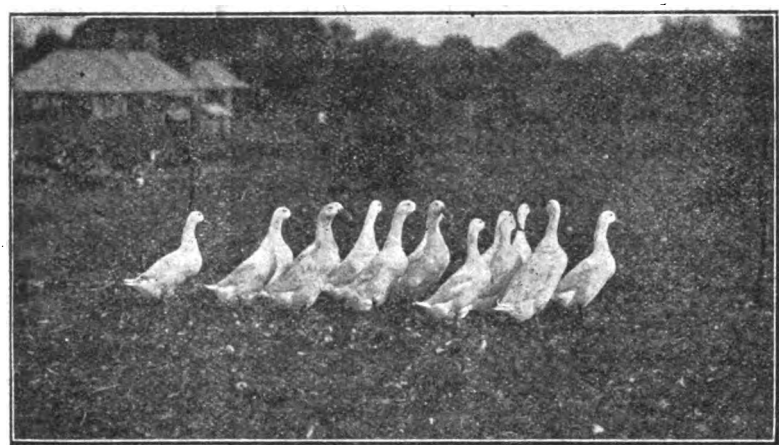
Fawn and White Runner, No. 165, has an unfinished sequence of 170 to her credit.

There were two deaths during the month. The general health of the flock, apart from the colds above referred to, was again very good.

One should notice particularly the extraordinarily good health that ducks seem to enjoy—hardly ever a death, serious illness almost unknown—an outbreak of colds affecting practically the whole flock during the four weeks under review, and yet with very few exceptions every duck quite well again in three or four days! Then the short period of moulting calls for some notice; a K.C., a very heavy layer commences on the 1st day of the month, completes the moult entirely, and commences to lay again in 27 days. If only some of our hens would emulate such a performance!

As usual, I give the comparative figures of the leading pens of pullets and of ducks:—

White Wyandottes, 5 birds (Spice, William R.)	838
White Leghorns, 5 birds (Johnson, R. A.)	833
White Wyandottes, 5 birds (Rodwell, Richard ...)	831
White Leghorns, 5 birds (Baker, Bros.)	817
White Leghorns, 5 birds (Welch, F. R.)	807
Black Leghorns, 5 birds (Dereham, F. E.)	798
Black Leghorns, 5 birds (Allday and Rawson)...	790



Long's Khaki-Campbell with the record sequence of 201 eggs—may be quoted. This bird commenced her moult on the 1st day of the month, and by the 27th not only was it completed even to the wing feathers, but she actually re-commenced laying.

A number of birds are already through their moult, and an increase in production may be expected next month.

The total number of eggs laid during the month was 1,898—an average of 7.22 per bird, and the lowest point touched during the test.

As a result of the moult, a number of changes have taken place in the leading pens. Miss Barbara Raye's Khaki-Campbells have displaced Captain Long's pen of that breed in first position, and Oscar Gray, Ltd., moved up into 2nd place. Amongst the Fawn and White Runners, Miss Cavanagh's pen 42 still leads, and Mr. A. Appleyard's White Runners hold first place for that breed. Captain Heseltine's pen remains top of the Buff Orpingtons.

Mr. R. Eccleston's duck No. 133 completed a sequence of 164 eggs, and Mr. John Richardson's

Khaki-Campbells, 5 birds (Raye, Miss B.)	1060
Khaki-Campbells, 5 birds (Gray, Ltd., Oscar)	955
Khaki-Campbells, 5 birds (Long, Captain R. A.)	951
Coaley Fawns, 5 birds (Wratten, E. Brooke)	938
Fawn and White Runners, 5 birds (Cavanagh, Miss E.)	929
Khaki-Campbells, 5 birds (Brown, Oscar C.)	929
Buff Orpingtons, 5 birds (Heseltine, Cpt. G. C.)	925

Surely no comment on these figures is necessary.

It will be noticed that the White Indian Runner does not appear in the above pens, yet this variety is doing very well in the test.

In the "White" Section the three leading pens have put up records of 872, 801 and 793 eggs respectively per five birds, and there are sequences of 133, 129, 118 and 116 eggs from four birds.

I am illustrating one of my pens of Whites, birds of a distinctly "cobby" type, certainly rather heavier than the standard type of Indian Runner, by no means so erect, but none the less good layers, and the drakes very satisfactory when used for the table.

(To be continued.)



## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to SS, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

A. P. (Oakshaw). "I am troubled with something I have never had before. I have an Australorp cockerel which was growing fine, but a month ago I noticed he appeared a bit weak on his legs, he has gradually got worse until he can't stand. I have separated him from the rest, have mixed his mash with milk, and cut him bits of green bone and put nux vomica in his water, as advised by Mr. Brown, but he doesn't get stronger can you help me? I feed best wheat morning and noon, soft mash at night, consisting of 5 parts flaked maize, scalded, 5 parts oat feed, 10 parts thirds, 3 parts broad bran, and 2 parts fish meal, all by measure. Boxes full of flint grit and oyster shell, plenty of grass."

I am afraid I can't help you much, A.P., as the case is of rather long standing, and I am not sure as to the cause. A little change in feeding will be the first thing, give half the quantity of Flaked Maize and Oat Feed and Fish Meal, and leave the other ingredients of the mash as they are; in place of Wheat use Oats, then go to your grocer and get some Marmite (or chemist), dissolve a quarter of a teaspoonful of this in a quart of water and give the bird nothing else to drink for a few days. I can't promise any result from this treatment, but it is the only help I can give as you appear to have tried everything else.

I am pleased "Eggs" struck you as "uncommon." Please let me know if the treatment has any effect.

E. M. W. (Guilford). Give the hens two teaspoonfuls of olive oil, each containing 10 drops of oil of turpentine. This should be given early in the morning before they have any food. Your six hens have done very well indeed to lay over 2,000 eggs in less than two years.

M. K. C. (Milverton). I am afraid we cannot register the Black as the records were not made during the prescribed period. Our rule is 40 or more eggs in any 90 consecutive days from October 1st to January 31st. As many of your birds did a partial moult, the best indication of their breeding value would be the March and April records. Do not breed from any bird which laid less than 40 eggs during these two months. Would it not be better to wait and see how the cock's pullets turn out before you decide whether to use him again or not?

H. W. P. (Ilminster). I have never heard any serious objection to the use of asbestos houses; it is said that they "sweat," but that, I think, is largely a matter of proper ventilation. I should not consider them too cold for winter. Thanks for your appreciative remarks on "Eggs."

H. T. (Chesterfield). Your first question is rather a puzzling one to answer, H.T. You ask "Will about 4 acres properly set out bring in a living for a married man when near good markets?" If you are depending on the commercial egg, I should say most emphatically it would not, and even with pedigree stock the sale of sittings, day-olds, etc., it will be a terrible struggle for all but the exceptional individual. As to questions 2 and 3, before I answer these will you tell me what your object really is; is it Commercial Egg Farming or pedigree breeding? For example, your second question is "How many breeding pens shall I require and what size in square yards for 8 hens and a cock?" As to the lay out, I see you have "laying house for pullets" and one for hens, but you are intending to run a light and heavy breed, and it would not do to run them together. The Lancashire cabin with anthracite stoves I don't like for rearing. I should much prefer to rear in smaller numbers, as Mr. Meekings described in "Eggs" a few weeks ago.

L. A. S. (Colwall). I cannot tell you what is the matter with your geese, but as the symptoms are so peculiar, it would be advisable to communicate with the Ministry of Agriculture if you have any further losses.

P. W. (Hounslow). In "Eggs," August 2nd and 9th, there appears an exhaustive article on the subject of Coccidiosis, and I think you cannot do better than refer to this. In answer to your question, rabbits suffer from the disease as well as chickens. The disease is contagious. We can supply you with missing numbers of "Eggs."

J. S. C. (Backford). "I was very much interested in your article on "Production and Nutrition," which appeared in the issue of August 9th, especially in regard to your remarks on hard grain feeding. During the last four months or so I have been giving my laying stock only one oz. of grain per head per diem. Good wheat and oats being very scarce and dear, but the egg yield has been well maintained and a considerable saving in the food bill effected. The question arises would that method answer during the winter months, less grain means less scratching exercise."

also the days being shorter, would the birds consume sufficient dry mash. In regard to that same dry mash, what change do you advise for the winter. The present mash is as follows: 4 parts Bran, 1 Indian Meal, 1 Ground Oats (ordinary), 1 Distillery Grains, 2 Thirds, 1 Fish Meal. Also please say if you think there is too much fibre in the mash. I can get good ordinary ground oats from my neighbouring farmer at 10s. per cwt., whilst S.G.O. prices are 17s. In regard to the distillery grains these are also very good quality at 10s. per cwt., do they take the place of Clover Meal? Clover Meal is practically unknown here. I would like to follow your formula as given in your booklet, it is just a difference in the quality of the Ground Oats and Clover Meal. The birds are out on range. If you will construct me a winter mash from the above ingredients I shall be much obliged, or do you advise me to follow your own formula irrespectively of cost?"

If the grain feed is reduced or entirely omitted, J.S.C., it will be necessary to use a more concentrated mash, and also to devise some means to keep the birds active, not only that they may assimilate the food better but to prevent their becoming overfat. Now I think this might be managed by using finely Kibbled Maize as the scratch feed, it will be necessary that it should be fine so that it may be well buried in the litter. A handful for every five hens in the litter will be sufficient for the purpose. I am selecting Maize as the cheapest and most digestible of the grains. As to your mash, I think we can adjust this for the purpose. The Distillery Grains will not take the place of Clover, but as the birds have free range that will not matter; your Ground Oats I cannot express an opinion on as you have not sent a sample, and I find that ideas of Ground Oats vary from what we call crushed or hashed to some equally as good as Sussex Ground. In place of 4 parts Bran use two, and increase the Thirds to 4 parts, and add another part Indian Meal. You must watch your birds carefully, as until we have more thoroughly tested this no grain method we must not be too definite; you will know how to adjust your mash by handling your birds.

C. H. R. S. (Chard). As your Wyandotte pullets were 5½ months old when they began to lay and are well-matured birds, I am afraid that they come from a small egg strain, as they have been laying six weeks and the eggs only weigh 1½ ozs. Your mash might be improved, instead of equal parts Ground Oats, Sharps, and Bran, give 2 parts Bran, 4 Sharps, and one each of Sussex Ground Oats, Maize Gluten Feed, and Fish Meal. If you cannot get Maize Gluten Feed use Maize Meal. This is a dry mash. If you want to feed wet mash, reduce the Bran to 1 lb. and use it to dry off the other ingredients. You should never give fowls whole maize. Feed the younger ones on this mash too.

E. E. (Didcot). I cannot detect anything between the two samples of Gluten Feed to warrant the difference of 8s. 6d. per cwt. in the price, and advise you to use the cheaper. The Ground Oats at 18s. are much superior, the cheaper samples contain a good

deal of ground husk. There is little to choose between the two samples of Fish Meal, therefore again I should choose the cheaper. Yes, it would be possible to impregnate the Fish Meal with Cod Liver Oil as you suggest.

J. R. A. (Kilsyth). The sample of Fish Meal is a good one, and the Thirds are a first-class sample, but the Clover Meal is only moderate, and as you have plenty of green food I should not use it, it is not an economic price. I should prefer this sample of Thirds to what you call "randan."

W. E. S. (Marlow). The sample of Ground Oats is a very moderate one, and at 7 lbs. for 1s. 9d. is excessively dear. The Bran is a good sample as are the Toppings, but your dealer is charging you top price, as he is for the Fish Meal, which is but a moderate sample. If you could only buy in large quantities you would be 25 per cent. lower. (2) It is highly probable that the ducks will stop laying when they are sent to you, but I can't say that you would do better to sell them and buy others with the proceeds, as you are not likely to get a very high price for crossbreds. Allow them as much mash as they will eat in twenty minutes. I do not at present know anyone who would do as you suggest.

Mrs. J. H. (Witney). There is the Middlesex Laying Test, particulars of which you will see in last week's "Eggs," and the Harper-Adams'. I am afraid you are too late for the others. It will not be advisable to send birds which are laying now as they are almost sure to moult. (2) Pullets which are reared on dry mash will take very readily to the wet, so will be allright for the competition. (3) As this hen has been laying shell-less eggs for months I do not think you can do much with her, but she may get allright after the moult. (5) I think you can get the hampers at St. Dunstan's, if not most of the big London stores keep them; one would do to take six birds. (6) The Registration forms will be ready early next month; you should apply to Mr. Mudie Draper for them.

Delta (Middlesbro'). Wooden floors are not absolutely necessary, and if you put in furnace clinkers and ram them well down it will answer very well, especially if you do as you suggest and raise it a foot above the level of the surrounding ground.

T. A. F. (Wimbledon). No. 1 (the smaller bird) seems to be the most typical of the two cockerels, and as we want quality in the male rather than size, I advise you to use him.

Mrs. F. (Navan). You will see that in last week's Foods and Feeding, I have written further on the subject of feeding fowls without grain. You might try it with your pullets, only giving them a little finely Kibbled Maize in the litter to promote exercise, say one handful between every six hens twice daily. You could give malt culms to make up your mash. The salts should be given to the breeding stock. Nettles are very good for fowls.

## DUCK QUERY.

G. G. B. (Acton Vicarage). I am glad to hear you have lately become a reader of "Eggs," and shall be pleased to be of any service with regard to ducks.

(1) Unsatisfactory incubator results. You do not say whether your machine is a hot-air or hot-water one, but from what you say I gather that the chief cause of the bad hatch was lack of moisture. On another occasion it would be well to increase the moisture by (1) keeping the ground beneath the machine wet; (2) if hot-air machine, place shallow vessel of warm water beneath chick drawer during last days of incubation. Eggs can also be sprinkled with warm water if too dry.

A secondary cause is that you started incubation at too low a temperature. Disregarding makers instructions (hopelessly faulty and out of date) commence incubation at 103 deg. the first week and then drop to a 102 for rest of time until the fourth week, when a slight rise to 102-103 is helpful.

Any eggs that are addled or smell should be taken away immediately they are discovered—perhaps you left yours in; if so, they caused additional mischief. That the ducklings were unable to get out of the shell proves that there was lack of necessary moisture to soften shell, etc., and you were quite right to help them out.

For the sake of the others, I may say that during a period of many years I have never had any ill-effects from helping ducklings out of the shell, and advise readers to do so when matters seem unduly delayed. Of course, it should be done as gently as possible, and at the same time it should be done quickly so that the ducklings may not be killed.

It is a good plan to do it over a vessel of hot water, so that the steam arising keeps the duckling warm and the moisture helps the process.

**Diet.**—You ask for my opinion on your system of feeding. You have lost none, and they have grown well, and that would seem in practice to be quite alright; still, as you ask my opinion I am bound to admit that I should be sorry to follow it. Your foodstuffs are Rice, Barley Meal, Bran, and Biscuit Meal, given in variations of rice alone or rice and barley meal equal parts, or bran and barley meal equal parts with a little biscuit meal.

Rice is of poor feeding value and too starchy, Barley Meal only fit in small quantities for adults and for fattening purposes. Bran I suspect to be the cause of many deaths in young ducklings.

Next time you hatch, try: Biscuit Meal (scalded), Middlings, 2 parts each, S.G. Oats 1 part, add a pinch of Fish Meal, or moisten with Skim Milk. This the first ten days. Gradually cheapen the mash by adding more midds, and substitute maize germ meal or maize gluten feed for the biscuit meal. Adding, of course, some fish meal till you are giving 10 per cent.

**Housing.**—The bacon boxes will do quite well, but be sure they have plenty of air.

**Profits.**—Yes, ducks pay quite well if the right sort are kept in the right way. Laying strains of laying breeds probably pay better than feeding table ducklings.

The five acres of land upon which two cows and a yearling graze and hay is cut for winter feed, unless

the land is unusually good there is not accommodation for many ducks. Do not keep more than 12 or 15 unless you pen them. There is no good breed for laying and table unless you are satisfied with a small one—Buff Orpingtons.

Aylesbury ducks crossed with Indian Runner make a fairly good general purpose bird. I have no difficulty in selling duck eggs at rather a better price than hen eggs. Breeding without swimming water is quite alright.

## POST-MORTEMS.

Reply to E. B., Hebden Bridge.—The bird had the condition described in my article on "Fowl Plague." As you are losing others, I think you had better disinfect the house and water.

Reply to Mrs. Cloudsdale.—The drake had aspergillosis, i.e., growth of mould in the lung.

Reply to H. Vardon.—The W.L. hen had advanced tuberculosis of liver and spleen. You will realise that that is incurable. You did not answer my question about the duck. The notice to which you refer is incorrect.

Reply to H. Strong.—The disease of the lungs was similar to actinomycosis (which affects the tongue and internal organs) of cattle. It is infectious.

Reply to Ulster.—The bird had congestion of lungs and kidneys, and small haemorrhages in the liver. I should like to know whether you have lost others. It looked as if there might be some infection, but I have not been able to find any germs.

I wish to point out that I cannot answer questions unless the fee (1/-) is enclosed for a reply by post. I am not supposed to answer questions in "Eggs"; I give P.M. reports only. And I can certainly not answer questions by post when not even the postage is enclosed, as has happened several times lately. With those who wish to have questions answered, please note.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, 1st SEPTEMBER, 1921.

**GRAIN AND FEEDING STUFFS.**—New corn is in increasing supply, especially in southern districts, and is meeting a dull enquiry at reduced prices, new wheat realising about 41s. 6d. to 42s. 6d. per 504 lbs.. Imported wheat (No. 2 Red Winter) is fetching about 49s. to 49s. 6d. per 496 lbs. Imported oats are rather cheaper, but maize maintains its value. Supplies of milling offals are limited, and prices show little material alteration.

**MILLERS' OFFALS.**—Bran (British): Bristol, £7; Hull, £6 2s.; Liverpool, £6 15s.; London, £6 12s. Broad Bran: Hull, £7 2s.; London, £8 5s. Fine Middlings (Imported): London, £9 7s. Coarse Middlings (British): Bristol, £9 15s.; Hull, £9 7s.; Liverpool, £9 2s. London, £9 2s. Pollards (Imported): Liverpool, £7 10s.; London, £6 17s. Rice Bran: Bristol, £8; Liverpool, £7 15s.; London, £7 12s. **MEAL.**—Barley Meal: Bristol, £11 2s.; Hull, £11; London, £11 5s. Maize Meal: Bristol, £10 7s.; Hull, £9 7s.; Liverpool, £9 10s. Maize Meal (S. African): Hull, £8 17s.; Liverpool, £8 15s.; London, £9 7s. Maize Germ Meal: Bristol, £10 5s.; Hull, £9; London, £9 5s. Maize Gluten Feed, London, £9.

## EGGS AND DEAD POULTRY.

Eggs are again dearer. Poultry meets a slow trade at about old prices. Week-end prices, Eggs per 120: English New d., 21s., 22s.; Irish, 17s., 18s.; Dutch all brown, 21s., 22s.; Danish, 19s., 20s.

## EGGS.

Per Doz.—Ashford: First, 2s. 7d.; Second, 2s. 6d. Birmingham: First, 2s. 1d.; Second, 1s. 11d. Carlisle: First, 2s. 0d. Elmstford: First, 2s. 5d.; Second, 2s. 2d. Denbigh: First, 1d.; Second, 2s. 0d. Derby: First, 2s. 0d. Dorchester: First, 2s. 0d. Exeter: First, 2s. 2d. Hereford: First, 2s. 0d. Hull: First, 1s. 10d. Ipswich: First, 2s. 3d.; Second, 2s. 0d. King's Lynn: First, 2s. 0d. Lincoln: First, 2s. 0d. Llandilo: First, 1s. 9d.; Second, 1s. 6d. Newport (Mon.): First, 2s. 3d. Norwich: First, 2s. 1d. Oswestry: First, 2s. 5d.; Second, 1s. 3d. Penzance: First, 1s. 8d.; Second, 1s. 7d. Salisbury: First, 2s. 5d.; Second, 2s. 4d. Shrewsbury: First, 2s. 3d.; Second, 1s. 10d. Skipton: First, 2s. Taunton: First, 1s. 9d. Truro: First, 1s. 5d. York: First, 2s. 2d.; Second, 2s. 0d.

## FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, 4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 9d.; Second, 1s. 6d. Hereford: First, 1s. 4d. Ipswich: First, \*6s. 0d.; Second, \*4s. 0d. Lincoln: First, \*4s. 6d.; Second, \*3s. 6d. Llandilo: First, 1s. 10d.; Second, 1s. 4d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 1s. 9d.; Second, 1s. 4d. Shrewsbury: First, \*6s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 7d. York: First, \*6s. 0d.; Second, \*4s. 0d. London: First, 1s. 9d.; Second, 1s. 6d.

## DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, \*4s. 6d.; Second, \*3s. 6d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Llandilo: First, 1s. 10d.; Second, 1s. 8d. Shrewsbury: First, \*6s. 6d.; Second, \*5s. 0d. York: First, \*8s. 0d.; Second, \*5s. 0d.

\* Per Head.

## RAISING SHOW BIRDS FROM UTILITY POULTRY.

### LECTURE AT "HEASELANDS."

A question which is exercising the minds of not a small section of the poultry world to-day, that of bringing the utility bird and the show closer together, was discussed in the sixth of the series of lectures being given at "Heaslands," the headquarters of Mr. E. Bostock Smith's Poultry Farm, on Friday evening, the 1st instant.

The lecturer was Mr. William Rice, the well-known Secretary of the Poultry Club, and his talk proved of immense value to the visitors and pupils.

Mr. Rice opened by asking the question, "What would you do to breed some show birds from your pen of record holders?" He assumed that beauty and utility could be combined, and he said he should first of all select a dozen or so of the healthiest and second-season hens—birds that had gone on straight from birth, and did not know what one-eyed roup meant, birds that had never been forced, and that always had the advantage of free range. Such birds would have laid fair-sized eggs, and probably 150 or more in their pullet year. He would then get a friend well up in the show points of the breed to choose three or four of the most satisfactory from this angle of view. The cockerel should be a fine, strapping bird, strong in the sections in which the hens might be deficient. There they would have a pen to produce cockerels to mate to their

main flock the following year. Each season they should follow the same plan, and if the experiment turned out a failure they had the satisfaction of knowing they had not spoilt the whole flock.

They should not be tempted by beauty of feather, by perfection of comb, or by excellence in any of the points which pleased the eye, if the bird was not fit. Health must come first, second and last all the time. How could they ensure such health? It could be assumed that the parent birds were sound, and the hens produced eggs fit to hatch. But there were eggs and eggs. Some seemed to hatch under protest, but it was that sort that delighted the poultryman's heart, for he could hardly prevent them hatching into thrifty, honest chicks.

The question of incubation was a difficult one to argue. In the usual way a machine was preferable, but for their special purpose he would use the hen every time. The reason for this was that he considered Nature constructed a Wyandotte hen of the most appropriate weight, and she possessed the necessary heat and humidity during her broody period to sit on her eggs, which would thus have the right temperature and a certain amount of moisture. With regard to non-sitting breeds, Mr. Rice advocated the use of a hen of approximately the same weight. His experience had taught him that that difficulty was not a real one, but he urged his hearers not to let that, or any other theory be carried to an absurd point. They must do the best they could with the material at hand, and should never let good eggs get stale if a broody hen did not materialise, and one had a machine at hand. In the same way, if they could not put the newly-hatched chicks under a hen they should use a foster mother. But here again caution was necessary, for they had to remember they were trying to rear some super chicks.

Turning to the matter of feeding, Mr. Rice said he was no crank in regard to that. Good, sound honest stuff, of the very best quality, was the thing. Chick mixtures varied very much, but in the main they contained too much of a forcing nature. He strongly believed in egg custard, which could be made very easily. One egg should be placed in half a pint of milk in a jug. The jug should then be stood in a saucepan of hot water until the mixture was wet, when it could be scooped out a spoonful at a time. He also considered good kibbled wheat beat all fancy mixtures, whilst sometimes he used a little bread soaked in milk and squeezed nearly dry. Milk was good for chicks, but unless it was given in tiny doses, and in a clean vessel, it had better be left alone. It gives an infinite amount of trouble, but it is worth it, as milk builds up the frame. Water should always be given in a flat dish, or saucer, with pebbles in it, to prevent the chicks paddling, but allow them to get their beaks in.

In the ordinary course of events he would say a word or two about housing the adult stock, but he considered the arrangements in that department at "Heaslands" formed an object lesson more eloquent than any phrases of his.

In summing up his talk, Mr. Rice emphasised the following points:—Improve the show points of the birds by mating with good cockerels in the way he had indicated; be an absolute "crank" on health; hatch and rear special birds by means of hens; feed liberally, but with common-sense; using plain foods and no con-



diments; be scrupulously clean in every way, as dirty coops, dirty water pots, and remnants of stale food were deadly. Provide the chicks with plenty of mother earth, as in that sense only did dirt and health go together; do not forget the egg custard.

In conclusion, the speaker urged his hearers to take every opportunity of improving their knowledge of their favourite breed, and to be on their guard against extremists, not taking for gospel what anyone said unless they could prove by actual experiment that the statement held water.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### FOURTEENTH LIST.

Amount carried forward ... £650 6s. 1d.

	s.	d.
W. J. Whetnall ... ..	5	0
L. F. C. Muller ... ..	10	0
E. Johnson ... ..	63	0
Capt. J. Russell Autken ... ..	2	6
Randle, A. Bennett ... ..	10	0
A. Robb ... ..	10	0
F. Winterbotham ... ..	10	0
Mrs. Langford ... ..	10	0
"Hewshott" ... ..	20	0
J. Wilson ... ..	2	0
"A. G. S." ... ..	5	0
W. O. G. Cochrane ... ..	10	0
J. Graham Jones ... ..	6	0
T. G. Lomas ... ..	10	0
H. L. Stanley ... ..	2	6
W. F. Morris ... ..	10	6
G. E. Wollen ... ..	10	0
W. Green ... ..	1	0
W. A. Till ... ..	5	0
Lt.-Col. A. Delme Radcliffe ... ..	10	0
J. Trevor Irwin ... ..	5	0
J. B. and Son ... ..	5	0
H. C. Few ... ..	2	9
J. T. Holmes ... ..	2	6
Com. F. R. White ... ..	2	4
Capt. H. G. Brown ... ..	2	6
Valentine Goggs ... ..	2	0
Capt. E. Janes ... ..	5	0
C. E. Fox ... ..	5	0
Miss M. A. Tribe ... ..	5	0
T. H. B. Burgess ... ..	10	6
Hon. C. Finch-Knightley ... ..	10	0
W. Matthews ... ..	1	0
H. Matthewman ... ..	2	6
Miss M. S. Green ... ..	5	0
Miss A. Locke ... ..	5	0
Paymaster Lt.-Com. Malcolm E. Poignand, R.N. (2nd donation) ... ..	9	0
The Hon. Mrs. Maxwell (2nd donation) ... ..	10	0
Miss Miles ... ..	2	6
H. Harper ... ..	7	6
L. Thompson ... ..	2	6
Miss Borland ... ..	20	0
Major J. Andrew ... ..	12	6
"A. P., Woodlands" ... ..	2	0
E. Greenwood ... ..	10	0

	s.	d.
Miss J. Mason ... ..	7	6
"Discount" ... ..	1	6
Major H. D. McLaughlin ... ..	5	0
F. Cousins ... ..	2	6
Mrs. Donne ... ..	2	6
F. J. Clay ... ..	15	0
J. J. Pickering ... ..	2	0
John Neville ... ..	5	0
S. Caudwell ... ..	5	0
Frederick H. Baker ... ..	2	6
Chas. H. Welsh ... ..	2	0
Mrs. E. Mitchell ... ..	3	0
Lt.-Col. E. Gilbert ... ..	5	0
R. A. Bigland ... ..	2	6
F. K. Maxted ... ..	10	0
C. E. Goulsmith ... ..	5	0
W. J. Dancer ... ..	5	0
Major E. P. Widdicombe ... ..	10	0
H. Barrow Jones ... ..	2	6
Thos. Moore ... ..	5	0
E. Thomas ... ..	2	6
L. Morris Daffarn ... ..	2	6
L. J. Tallent ... ..	5	0
C. S. M. ... ..	5	0
C. C. Rew ... ..	1	6
S. Flewellin ... ..	1	0
F. Mason ... ..	5	0

Total ... .. £674 16 8

### APPLICANTS FOR MEMBERSHIP.

Friend, C., Bourne, Lincolnshire.  
 Lang, R. W., Park View, Ellington Road, Ramsgate.  
 Lomas, T. G., Bryn Golan, Llanfairfechan, N. Wales.  
 Needham, Capt. J. M. D., Woodside, Four Marks, Herts.  
 Kirby, Miss E. M., Little Braziers End Farm, Cholester, N. Tying, Baki.  
 Shaw, Mrs., Endon Edge Farm, Endon, Stoke-on-Trent.  
 Swaine, Miss L. B., Briarfield, Guildford.  
 Turrell, Capt. W. J., No. 5, Wick Farm, Albourne, N. Herts.  
 Walters, E. H., Deepdale, Spring Hall Lane, Sawbridgeworth, Herts.  
 White, A., 26, Chapel Street, Borrowash, Derby.  
 Butler, J., Berechurch Lodge Poultry Farm, Kingsford Hill, Layer-de-la-Naye Road, Nr. Colchester.  
 Wood, A., Primrose Cottages, Tamewater, Dohcross, Nr. Oldham.  
 Morison, Hector M., Egg Farm, Leckhampstead, Newbury, Baki.  
 Milvain, J., 30, Common Way, Stoke Heath, Coventry.  
 Geary, G. P., Gladstone Villa, Barwell, S. Hinckley.  
 Borland, Miss E., Kincardine Castle, Auchterarder, Perthshire.  
 Clarke, N. C., The Retreat, Warden Road, Eastchurch, Kent.  
 Pittaway, C. Lacy, Headgate Farm, Kirkby-in-Furness, Lancs.  
 Hudson, Sidney John, Acomb Poultry Farm, Acomb, Yorks.  
 Clay, F. J., The Ramblers, Dodford, Bromsgrove.  
 Hardy, Chas., Argos Hill, Rotherfield, Sussex.  
 Wood, Arthur E., Arden Lodge, Battle, Sussex.  
 Counts, H. A. T., Hammarbank, Windermere.  
 Baker, Frederick H., Utopia, Grimes Hill, Wythall, N. Alvechurch, Wors.  
 Quantrell, W. E. Grant, 50, Balham Grove, Balham, S.W.13.  
 Courin, H. C., Nelson House, Vange, Essex.  
 Dines, W. H., The Bungalow, Toffwood, East Dereham.  
 Smith, R., 19, Wallace Green, Berwick-on-Tweed.  
 Jackson, Frank W., The Old Vicarage, Germoe, Marazion, Cornwall.  
 Strand Hotel, Ltd., Court Farm, Poultry Dept., Staines, Midd.  
 Rutter, W. G., Pulman St. Mary, Harleston, Norfolk.  
 Socker, Miss Betty, Tregellas, Grampound Road, Cornwall.  
 Tavenor, E., 46, Gaddon Street, Battersea, S.W.11.

BREEDERS' SPECIALITIES.

**ALEXANDER'S  
PEDIGREE POULTRY.**  
W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**ROUGHTON via NORWICH.**

**F. A. HULME,**  
Heathfield Commercial Egg Farms,  
HEATHFIELD, SUSSEX.  
  
White Leghorns.  
  
Breeding Hens, Cockerels.  
Hatching Eggs in Season.

**MELLIN & SKURRAY,**  
S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.  
  
Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I. Reds (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

**F. J. HOUGHTON,**  
IVANHOE POULTRY FARM, FRITH END,  
Near FARNHAM.  
  
F. J. HOUGHTON wishes to point out  
that he is unable to fulfil any more orders  
owing to the Extension of his Farm this  
season. But asks prospective customers to  
place their orders Now for White Leghorn  
Sittings, Day-Olds, and Pullets for next  
season, and thus avoid disappointment.

**Miss HARDMAN,**  
Member, S.P.B.A. and N.U.P.S.,  
MYNET, DUNSFOLD, near GODALMING.  
  
White Wyandottes and Light Sussex.  
  
All Pullets trap-nested, and only good  
winter layers kept for breeding.

**SEND ALONG YOUR ORDER.**  
  
**A MOST**  
  
**PROFITABLE INVESTMENT.**

**IF IT IS ADVERTISED IN**  
  
"EGGS"  
  
You can depend on it.

**WHITE WYANDOTTES.**  
  
L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.  
  
Speciality:  
**STAMINA AND SIZE OF EGGS.**

**MRS. SILVA JONES,**  
Freewaters, Ickleford, Hitchin.  
  
**LIGHT SUSSEX. WHITE LEGHORNS.**  
  
Rothschild-Leigh Strain. Tom Barron.  
All Pullets Trap-nested.

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.  
White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.  
  
**SHIPWAY POULTRY FARM,**  
TORQUAY, SOUTH DEVON.

**Coaley Poultry Farm,**  
GLOUCESTERSHIRE.  
  
COALEY FAWN DUCKS still leading for  
7th month at Bentley. Eggs and Ducklings.  
Pullets, Cockerels, Stock Birds.  
White Wyandottes, Buff Orpingtons.  
White Leghorns, Light Sussex.  
Rhode Island Reds, Black Leghorns.  
  
**E. BROOKE WRATTEN**  
(Successor to Miss Edwards).

**HOLMES and HOLMES,**  
S.P.B.A., N.U.P.S., L.B.P.S.,  
T.A. FOXDELL, CHALFONT, ST. PETER'S.  
Breeders of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.  
Telephone: Chalfont St. Giles 54.

Have you seen the bargains being  
offered in the classified advertisement  
section?

**EVERY MEMBER OF THE**  
**S.P.B.A.**  
**SHOULD TAKE ONE OF**  
**THESE SPACES.**

**WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.**  
Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.  
Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.  
  
**A. F. C. HOLDAWAY.**

**R. J. HUBBUCK,**  
Member of S.P.B.A., N.U.P.S., and P.C.  
Pinehurst Poultry Farm,  
Headley, Hants.  
  
White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

**K. E. FIELD-HART**  
  
**WHITE LEGHORNS**  
Breeding Hens for Sale in Sept.  
  
**THE LIMBERLOST,  
HEATHFIELD, SUSSEX.**

**Mrs. HARRY KENT,**  
Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.  
Telephone: 23 Handcross.  
  
Exhibition and Pure-bred Trap-Nested  
Utility Poultry.  
**LIGHT SUSSEX.**  
**WHITE LEGHORNS.**  
**BLACK LEGHORNS.**  
Speciality.—Three Months' Old Pullets from  
15s.  
  
Illustrated Catalogue Post Free.

**MISS ARGLES, N.U.P.S., B.C.**  
Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years in  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.  
From 10/-, according to age and pen.  
  
**ANSTEY POULTRY FARM,**  
ALTON, HANTS.

**WHEN WRITING ANY OF THE**  
  
**ABOVE RELIABLE BREEDERS,**  
  
**PLEASE MENTION "EGGS."**

**ONE OF THESE SPACES**  
**COSTS:**  
13 weeks, 5s. 6d. per insertion  
26 " 5s. 0d. " "  
52 " 4s. 6d. " "  
(Not less than 13 accepted).

## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

1	insertions for the price of 2
6	" " " "
9	" " " "
13	" " " "

### FOR SALE. PULLETS.

**WHITE LEGHORN** Pullets, three months old, 200-280 strain; 12s. 6d., 15s. each, R.I. REDS and **WHITE WYANDOTTES**, 12s. 6d., 15s. each. Particulars of others on application.—C. D. Cheesbrough, Carlton, Nottingham.

150 Beautiful Cross-bred Pullets; state requirement; 6s. 9d., 7s. 6d., 9s. each, carriage paid.—Joy, Teall Street, Wakefield.

**BUFF ROCK** Pullets, February and March hatched, 1922, from L2 birds (average 187 eggs); price 16s. each.—Worters, Uplands, Rotherfield, Sussex.

**WHITE WYANDOTTES**, 1922, hatched February and March, sires from L. Williams; from 17s. 6d. to £1 each; approval; deposit with Editor.—Cowlshaw, Oak Lodge, Loudwater, Bucks.

**WHITE WYANDOTTES**, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlshaw, Oak Lodge, Loudwater, Bucks.

**WHITE WYANDOTTE** Pullets, 5th March, 3rd April hatched (pure Cam's), 20s. each. Approval.—Eccles and Briggs, Fanton Hall, Wickford, Essex.

**LA BRESSE - WYANDOTTES**, March hatched, from heavy layers of large eggs (both sides).—Captain Heseltine, Ropley.

**R.I.R.** Pullets; splendid condition; bred from hens with 200 to 250 records; sire's dams, 281 and 299; March and April hatched; from 12s. 6d. each.—D. Hasler, Little House, Frinton-on-Sea.

**BLACK LEGHORN** 1922 Pullets (Upjohn-American), in full lay; 17s. 6d. each. Also **WHITE LEGHORN** Pullets, in full lay; Cam-Barron, 15s.; 1921 Hens, 8s. Approval.—Dr. G. P. Wilson, Ketton, Stamford.

### SIX MONTHS OLD.

**WHITE LEGHORN** Pullets, hatched March 9th, on the point of laying, Sires Brothers to Mr. R. A. Johnson's Pullets, now leading National Laying Test. Dams Metcalfe Hens. Typical well-matured birds, 45 per half-dozen, carriage paid. Satisfaction or cash refunded.—V. Garrett, the Glen, Shortwood, Nailsworth, Glos.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Columns and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

ADVERTISEMENTS must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16 by first post FRIDAY MORNINGS, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

**BUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleden, Henley-on-Thames.

1921 **RHODE ISLAND** Pullets, 6s. each; Cock, 10s. Miss Walker, Newbiggin, Penrith.

### HENS.

20 Barron **WHITE LEGHORN** L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted. 12 Wilson **ANCONAS**, L2 Trap-Nested, hatched March, 1921, in full lay; 15s. each. Room wanted.—Smith, Normanton Grange, Plumtree, Notts.

**WHITE WYANDOTTE** Hens, 200; Cam, Barron and Latham strains. Also 30 **LIGHT SUSSEX**. All March, 1921, hatched. 6s. each, carriage paid. Approval.—W. F. Morris, Brook End Farm, Abberley, Worcester.

Twelve **WHITE LEGHORNS**, 1921, 5s. 6d. each. 1921 Cock, Barron direct, 15s. 6d.—Fidler, Colehill, Wimborne.

**WHITE LEGHORNS** (Barrons), **BLACK LEGHORNS** (Upjohn - Birkett), **WHITE WYANDOTTES** (Cam's). All records above 130 for nine months. Selected birds only. 15s. and 17s. 6d. each. Make excellent breeding stock. A few 1920 Hens, each breed 7s. 6d. each. Any sent on approval.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

### RINGMER, SUSSEX.

**WHITE LEGHORNS**, 1921 and 1920. Selected Birds only, all layers of large eggs, guaranteed no illness whatsoever, 15s. and 7s. 6d.: reduction on quantities. — Wellingham House Poultry Farm.

7s. 6d. (HATCHED, 1921.) 7s. 6d. 7s. 6d. (HATCHED 1921.) 7s. 6d. 1s. Head. 69 W. LEGHORNS (Cooks St. Mary Cray, direct), splendid hens, in grand condition. — G. Hanson, Brooklyn Egg Farm, Kilby, Leicestershire.

### COCKS AND COCKERELS.

**WHITE LEGHORN COCKERELS**, from Cam's extra-special Pen No. 2, April hatched, £1 1s.—Major Salkeld, Holme Hill, Dalston, Cumberland.

Stock Cockerels, **WHITE LEGHORNS** (Padman-Barron's), **RHODE ISLAND REDS** (Measure's). March and April hatched 10s. 6d. and 7s. 6d. each., carriage paid.—Miss Turner, Dale Hall, Ipswich.

Cockerels, March-May hatched, 100 for immediate disposal: **WHITE LEGHORN**, **WYANDOTTE** and **RHODE ISLAND**. Pure strains. Pedigrees given.—Wheeler, Hootesley, Great Sutton, Cheshire.

### FOR SALE.

16 **WHITE WYANDOTTE** Cockerels, March hatched, guaranteed Barron's Strain, from 2½ oz. Egg Parents.—Edward Meopham, Kent.

### RHODE ISLAND COCKERELS

8 Healthy Birds, March, 1922, hatched from Eggs direct from Marsdens, Shipley Fields Poultry Farm, Pen No. 1, from Trap-nested stock, averaging 71 Eggs in Winter months. 10s. 6d. each, or £4 the lot. Approval.—Thomas Swift, 26, Towngate, Northowram, Halifax.

### Mrs. M. E. BURGESS

has a few **WHITE WYANDOTTE** Cockerels from hens with individual records of 230, 275, 248, 245, 231 and 226 large eggs in Pullet Year. From 21s. each.—Woodside, Tenterden, Kent.

**WHITE WYANDOTTE** Cockerels, 1922; February hatched, from daughters of Cam's Special Pen; 25s. each. Approval.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.

**WHITE LEGHORNS**, from Major Lee's Registered Pens, hatched February; dam's records October 15th. January 15th, 58-60. 10s. 6d. each.—Strong, 7, Pownall Gardens, Hounslow.

**STOCK BIRDS**. 75 per cent. Reductions taken now. Choice 1922 Cockerels, Wyandottes and Leghorns, Cam, Barron, Snowden; 10s. 6d. and 15s. Two magnificent 1921 Wyandotte Cockerels (Cam), 27s. each.—Scott, S.P.B.A., Orton Waterville, Hunts.

September 6th, 1922.

## EGGS.

### PEDIGREE R.I.R. (So.) COCKERELS.

From Boucher's Pen I., dam's records 279-302. Grand dam Boucher No. 48, sire's dam Boucher, famous 37. Also from Mrs. Schwabe's late Pen II., headed by winner first and special prizes Luton, and fourth Manchester, 1920, from 10s. 6d. each. — Clark, Northbourne, Bransgore, Hants.

Cockerels. WHITE WYANDOTTE, WHITE LEGHORNS, February and March hatched; 12s. 6d., 15s. Pedigrees on application. — Harries, Moneysland Poultry Farm, Crawley.

R.I.R. Cockerels, hatched April 6th, by Boucher sires' sons of his 1,000-egg hen, dam's daughter of his 942 big egg hen; every cockerel guaranteed; price 12s. 6d. — Daniel, 3, Parade, Barry.

Few Selected RHODE Cockerels, from hen laying 66 24oz. eggs in November, December, January; sire Golden's Extra Special Pen direct; 24oz. Egg Pedigree on both sides; 25s. each. Also sturdy dark Cockerels, with 24oz. Egg Pedigree both sides; Stock Boucher direct; 15s. each. WHITE WYANDOTTE Cockerels (March), Tom Barron Strain direct; dam's winter record 61 24ozs. eggs. Sire's dam 248 24oz. — 250 24oz. eggs; 15s. each. All carriage paid. — Miss Clark, Leafmore, Liss, Hants.

### BUFF ROCK COCKERELS.

February hatched, by E. and F. Hunt, from registered pen; 17s. 6d. each; deposit. — Jannaway, M.S.P.B.A., Cherry Tree Poultry Farm, Sanderstead, Surrey.

Few Pedigree WHITE LEGHORN Cockerels, sired by son of a 277-egg hen; toe-punched; 7s. 6d., 10s. 6d. — Particulars, W. P. Graham, Rotherfield, Sussex.

BLACK LEGHORN Cockerels (Margerson), April hatched; 10s. each. Specially Selected, 15s. — Miss F. M. Bradley, Mere Hall, Knutsford, Cheshire.

### Dr. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, February and March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 21s. each, carriage paid; September and October. — Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

R.I.R. Cockerels, February hatched, well developed birds of specially good colour, from dam (Measure's direct), with winter record of 68 (24oz. egg.), sired by son of Mr. Boucher's famous hen 37, the world's record layer; 30s. each. (No B.W.D. on this farm). — Mrs. Athol Stuart, M.S.P.B.A., Oaklands, Boxmoor, Herts.

MISS HASLER, Little House, Frinton-on-Sea, has a few Cockerels for sale from her special pen, with yearly record 281; three winter months 37. February hatched, fine birds, two guineas each; March hatched, from records of 280, 260, and 250, from one guinea; reduction on several.

Stock Cockerels. Pure WHITE LEGHORN (Padman), March; 12s. 6d.; April, 10s. 6d. — Francis, 102, Dunvegan Road, Eltham, S.E.9.

January, February and March hatched Cockerels, WHITE WYANDOTTES, Cam's direct, 245-301, by 274; LIGHT SUSSEX, Cook's direct, 264-279, by 269; WHITE LEGHORNS, Cook's direct, 284-288 by 293; 21s. to 42s., carriage paid. Approval with pleasure. — Palmer, Hillside, Swinton, Rotherham.

Early March Crowley-Boucher RHODE ISLAND Cockerels, from registered pens; 10s. each. — Arnott, Chevening, Sevenoaks.

Stock WHITE LEGHORNS, dam's 230 upwards; sire's dam 260 24oz. eggs; from 18s. 6d. — Captain Heseltine, Ropley.

### SPECIAL OFFER OF PEDIGREE COCKERELS.

WHITE LEGHORN, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 233-255, winter records 79-95; 7s. 6d., 15s. each, according to age. Also few Special from hens with winter records 104-109; £1 each; reduction on several; hatched February-April. Average weight of eggs 24-24oz. Carriage paid. — Bealing, Jesmond Dene, Burgess Street, Bassett, Southampton.

### RHODE ISLAND

Cockerels, pure-bred, March and April hatched, from 10s. 6d. each. — Cuttriss, Milestone House, West Ashby, Horncastle.

R.I.R. February Cockerels, pedigree birds, 12s. 6d. and 15s. — Potton, Friar Street, Shoe-buryness.

March hatched R.I.R., Hunter's Exhibition pen direct; WHITE WYANDOTTES, sire from Barron's three-guinea pen (1st prize, King's Lynn), dam's, Cam's best; BLACK LEGHORNS, "Measure's," parents purchased from Government's Methwold Training Centre; 10s. each, easily worth double; correspondence invited. — Mrs. Dora Seed, River Poultry Farm, King's Lynn.

### BLACK LEGHORN COCKERELS.

Burn-Murdoch direct; four months old; beautiful birds; 7s. 6d. each, three for a guinea. Approval willingly. — Harvey, Hatherden, Andover.

### APPLIANCES.

#### TRAP-NEST FRONTS.

About 70 Stanworth-Soule Trap-nest Fronts for Sale. Cleaned, Disinfected. 2s. 6d. each, f.o.r. — Severn Storr, Winnaway Farm, Harwell, Stevenston, Berks.

### ROOFING FELTS

"Superfelt," Ashwell, Herts.

### WIRE NETTING

Best galvanised. British only; stamp list — Superfelt, Ashwell, Herts.

### SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials. — Superfelt, Ashwell, Herts.

### GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

### PEAT DUST FOR LITTER, POULTRY AND PIGEONS.

Also GRITS, Postage paid; 10lbs., either or both, 2s. Larger quantities very cheap; freight forward. — McEvoy's, Ltd., Mountmellick.

### GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s.; 4 cwt., 26s. 6d. All have hinged lids. All carriage paid, three or over 5 per cent. off list. — Hudson, Sheet Metal Works, Patricroft, Lanes.

For Sale. — One HEARSON, 50-60, nearly new, £7. One HEARSON, 50-60, in good working order, £5. One MASCOT, 30-egg, nearly new; £2 10s. One TAMLIN, "Nonpareil," 100-egg, £6. All carriage paid. All used with good results this season. Reason for disposing installing larger capacity incubators. — Loveless, E. A. S., Wissington Poultry Farm, Nayland, Colchester.

### BREEDING PENS.

Pen Three 1920, and Three 1921 L2 R.I.R. Hens, with grand February cockerel, 24oz. egg records both sides: pure Boucher; 70s. the pen; Two L2 1921 WHITE LEGHORN Hens and Pedigree Cock, pure Padman; 30s. the pen. — Miss Clark, Leafmore, Liss, Hants.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free. — Write, Hodges, 13, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests. — Inventor and Maker, F. Bird, M.S.P.B.A., Middlesex Poultry Farm, Ramsden Heath, Billerica, Agent Planok Cold Brooder. Vacancy for Pupil.

### PORTABLE POULTRY HOUSES.

For Sale, 6ft. long, 4ft. wide, 4ft. high, with outside nest boxes; price, complete, £2 15s.; three, £7 18s.; six, £15 5s.; 9ft. long, 5ft. wide, 5ft. high, price £5 18s., floor £1 5s.; 12ft. long, 5ft. wide, 5ft. high, price £8 5s., floor, £1 18s. Carriage paid nearest station. P. E. Cook, Highfield, Thundersley, Essex.

100 Tarnin INCUBATOR, complete with Stand, Self-filling Lamp, good condition; buying larger: £6, carriage paid. — Harrison, West Burton, Yorks.

### "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend. — Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.



**DUCKS AND DRAKES.**

Wilson's **RUNNER Ducks** and **ANCONA Fowls**, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

**FAWN** and **WHITE RUNNER Duck** 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

**WHITE RUNNER Drakes**, bred for heavy egg production; full brother to first prize, Skegness, and third prize in class of 20, Tring; 21s. each.—Miss Wigram, Ordsall, Retford.

**FOR SALE**, Pedigree **Khaki-Campbell Ducks**, splendid laying strain, fine sable birds; commencing laying; 10s. and 13s. each.—Mrs. Dalrymple, Bartley Lodge, Cadnam, Hants.

**WHITE RUNNER DRAKE**, this year's hatch, from trap-nested stock; healthy, vigorous; limited number; 12s. 6d. each, carriage forward.—Apply, Box 138, "Eggs," 94, Farncombe Street, London, S.E.16.

A number of **FAWN** and **WHITE INDIAN RUNNER Ducks**, 1922 hatched; also unrelated Drakes (Upjohn-Shaw), three to five months old; 12s. 6d. each.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

20 **WHITE RUNNER Ducks**, March hatched; 10s. 6d. each, £10 the lot. Carriage paid on six.—Wye Lodge, Ashford, Middlesex.

**DUCKLINGS** (12 weeks), from very heavy layers of large eggs; 10s. 6d. each.—Captain Heselstine, Ropley.

**Fawn** and **White RUNNER DUCKS**, April, 1922, Simon-Hunter X Holdich 300 strain; 12s. 6d. each, carriage paid on six.—Pearson, S.P.B.A., Whitelimes, Cranbrook, Kent.

**Khaki-Campbell DUCKS**. Four (4) 1921 Ducks (Oscar Brown), and unrelated Drake (Paine), £4. Also Five April, 1922, Ducks, daughters of above, 15s. each, and seven Drakes, 12s. 6d. each.—Mrs. Bolden, M.S.P.B.A., Rockford Lodge, Knutsford.

**Coaley FAWN DRAKES** (Brooke-Wratten direct), well-grown birds, early April hatched, 15s. 6d. each.—Miss Marshall, Breinton Manor, Hereford.

April Hatched. **White** also **Fawn RUNNER DRAKES**, Wilson strain direct, 15s.—25s. each.—Miss Fernandes, Haddon Lodge, Stalbridge.

**White INDIAN RUNNERS**, 1922 hatched, 4 Ducks and Drake (Taylor's), Price £2 10s. Also Mated pen Roman Gander and two Geese, £3 10s.—Cartwright, Welland Poultry Farm, Seaton, Uppingham.

**Fawn** and **White RUNNER DRAKES**, April, 1922, hatched, from flock averaging 216 eggs; 7s. 6d. each, carriage paid.—Turnill, Eye, Peterborough.

**"GOSLINGS."**

Well-grown, April hatched, Goslings, from Good Layers, from 12s. 6d.—Hayes, Four Marks, Nr. Alton.

**PIGEONS.**

**UTILITY PIGEONS**, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Oolehill, Wimborne.

**RABBITS.**

**Lester Spurgeon**, Wistler's Wood, Woldingham, Surrey, breeder, pedigree giant **Blue Beverens**. Youngsters for sale.

**FOODS.****OYSTER SHELL.**

**Best American**, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

**GRANULATED CHARCOAL.**

Guaranteed Quality, half-cwt., 12s.; one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

**SPECIAL VALUE IN POULTRY FOOD.**

**GOOD CLEAN WHEAT SCREENINGS**, 11s. per 112lbs. Guaranteed Sussex Ground Oats, 17s. per 112 lbs. Bags Free. Carriage forward.—Marland and Co's Poultry Food Millers, Mossley, Manchester.

Real Quality. **LAYING MASH, FATTENING MASH, MOULTING MASH, FISH MEAL**; used by experts; 21s. cwt.; 12s. 6d. half-cwt., carriage paid.—Market Corn Stores, Teall Street, Wakefield.

**DERBYSHIRE LIMESTONE GRIT.**

3s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

**NITROPHOS PURE FISH MEAL**, Special Offer Two Weeks Only, 18s. cwt.; 9s. 6d. ½ cwt.—Corn Stores, Teall Street, Wakefield.

**MISCELLANEOUS.****THATCHAM EGG AND POULTRY FARM. THATCHAM, BERKSHIRE**

200 **White Leghorn**, April Hatched (Cam Strain), at 12s. 6d. each, £7 19s. per doz., carriage paid. 200 **White Leghorn**, March Hatched (Cam Strain), at 15s. each, £9 per doz., carriage paid. 200 **Ancona Pullets** (Hurts-Wilson Strain), February, 1921, Hatched, at 10s. each, £5 10s. per doz., carriage paid. An exceptionally fine flock of **Indian Runner Ducks** (Wilson's Best). A few **New Triumph Incubators**, by Lea, £10 each, carriage forward. Practically **New**, Never been Used, Owner Cutting down Stock.

**F. JOERGENS**, Specialist and **L** Breeder of **Croada. Stock Birds, P** and **Chicks**.—Kennylands, Emmer Reading.

**Strong, Vigorous Early-March, 1922, RED Boucher-Crawley Cockerels, and W. WYANDOTTE (Barron-Cooper) kerels**. All of fine type and colour, from high record hens. 20s. each. a few 1921 Breeding Hens, with good records, 10s. each.—Phillip Goodwin, span," Cheadle Hulme, Cheshire.

**PULLETS**, April and May hatched. 6d., 15s. each. **Black, White, Brown** horns, **White Wyandottes, R.I. Reds, Rocks, March** and **April Cross-breeds, 8s. 9s. 6d. DUCKS AND DRAKES, Buff Orpingtons, Runners, Aylesbury, 10s. 6d., 12s.**—Mrs. Wilson, M.S.P.B.A., Minorca Fa. Denholme, Bradford.

**FARMS FOR SALE. BETWEEN DEAL AND WALMER.**

**Capital Poultry Farm** of 9½ Acres (most pasture), known as Moncrieff's Poultry Farm, Little Mongeham, near Deal. 5m. Cottage Residence, prolific orchard, range of Hen Houses, 600 head Pure-bred Poultry (all as a going concern at a Low Reserve, with vacant possession). For Sale by Auction at Royal Fountain Hotel, Canterbury, on Saturday, September 30th, 1922. Auctioneers, John Barker and Co. Ltd., 18, Adam Street, Strand, London W.C., and Kensington, W.

**FOR SALE**, Good 4-room Residential Cottage and 12½ Acres Land, Freehold good well; fruit trees; suitable pigs and poultry; off main bus route, Canterbury Folkestone. Price, £950 or near offer. Vacant possession.—Apply, Horrocks, Little Breach, near Canterbury.

**SUSSEX FOWLS**.—Mrs. M. A. Grant Westlands, Horley, Breeder, Exhibitor Exporter all varieties. —Winners at all principal shows. Exhibition with best utility qualities a speciality.

**REV. SHEYMOUR SHAW**, Wareop, West moreland, can offer Young Stock of great quality at much reduced prices. **White Leghorns, Wyandottes and Runner Ducks** (all colours). Records to 269. Approval.

**EDENMORE POULTRY FARM, HOOK, HANTS.**

**WHITE WYANDOTTES**, large eggs, large birds, splendid records and stamina. **Stock Birds**, all with individual records, to make room for young stock. **Cockerels**, by son of Cam's Supreme, and other first-class pedigree stock. **Table Birds**, milk fed. The Young-Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all cause under 8 per cent., including weaklings from incubators. — For particulars and prices apply to Brig.-General Macconchy, Edmore, Hook, Hants.

September 6th, 1922.

## EGGS.

**WHITE BUNNER Ducks** (Taylor's strain). April-May, 1922; £4 lot, carriage d.—Harrison, West Burton, Yorks.

**Early May WHITE LEGHORN Pullets**, forward; 12s. 6d. **CROAD LANGSHAN Cockerels**; 15s. Both milk-fed, from trapped stock. **LIGHT SUSSEX Cockerels**, om L2 dams, by tested sire; 21s. — Major J. H. Roebuck, M.S.P.B.A., Hoo Meavy,ilverton.

**LIGHT SUSSEX Pullets**, April and May, 22. Also **WHITE ORPINGTON Hens**, 1921 cock. Price, 10s. to 21s. Room Wanted. Cash with order. 48 hours' approval. — Apply, Capt. J. G. Mudge, Homer Farm, Eaden, Oxon.

**WHITE WYANDOTTE Hens**, 1920 and 1921, Cam and Parson's Gold Medal Strain; 1922 Cockerels, March hatched, from pen headed by son of Cam's "College Queen," mated to grand-daughters of Cam's Pen 19. A few March hatched from Mrs. Strong's specially selected layers. Three **CROAD LANGSHAN Cockerels** (Bidley).—For prices, etc., apply, Mrs. Anderson, Larchmont, Headley, Hants.

**BREEDING PEN**. Six 1920 Hens, 1921 Cockerel, Columbian Wyandottes, paid W. Hammett, Blackpool, £10 10s.; will sell, £5. Room wanted. Pedigree, etc., supplied.—Seddon, Wroe Street, Clifton, Manchester.

**50 ANCONA Cockerels**, 30 Pullets (P. L. Johnston and Charles Lawson strain); Cockerels, 12s. 6d. separately, £25 lot. Pullets 15s. separately, £18 lot. Also 50 **BUFF ROCK Cockerels** and 50 Pullets (J. H. Cooper strain); Cockerels separately 10/6, £22 lot; Pullets 12s. 6d., or £27 lot. February-March hatched; all beautiful condition birds.—Mrs. Poston, Whitehill, Bordon, Hants.

### BARRON'S PEN,

Having purchased W. Barron's 1921 **WHITE LEGHORNS**, can offer Cockerels and Pullets from same. (For pedigrees see register). Also other breeds. Prices on application.—The Dales Poultry Farm (W. B. Payne, S.P.B.A.), Syston, Leicestershire.

### PULLETS, COCKERELS, HENS, COCKS, BREEDING PENS.

Leading Utility Strains, in White Leghorns, White Orpingtons, Reds, Light Sussex, White Wyandottes, from 7s. 6d. each; guaranteed never had a day's illness. — Scott-Miller, M.S.P.B.A., Olydeneuk Poultry Farm, Uddingston, Glasgow.

#### WHITE ORPINGTON ONLY.

Write for prices and particulars of our trap-named stock.—Manager, Westridge Egg Farm, Wotton-under-Edge.

**Young Stock Cockerels**, **WHITE WYANDOTTES**, March hatched, from Rodwell's best pens; sent on approval; deposit with Editor; only 10s. each; worth 30s. Also down W. **LEGHORN Chickens**, six weeks pullets; 35s.; bargain.—A. F. Edie, X.L., Leeds Road, Nelson.

## PUPILS.

The **ELTY POULTRY FARMING SCHOOL**, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outkirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

Vacancy for Sole Pupil on Modern Commercial Egg Farm. Live out. Only those really keen and prepared to work need apply. Satisfactory personal references required. Box 151, "Eggs," 94, Farncombe Street, London, S.E.16.

There will be Vacancies for Resident Pupils in October on a Poultry Farm in North Devon. A new plant is to be erected on up-to-date lines this winter, which will offer special experience.—For particulars and interview by appointment, apply, Miss Baldwin, Pasadena, Golders Green Road, N.W.XI.

### WELLINGHAM HOUSE POULTRY FARM.

Miss Malcolm trains lady pupils in all branches of poultry farm; extensive trap-nesting, breeding, commercial egg and table bird branches. Latest Scientific Feeding Experiments as introduced at recent Harper Adam's Conference. Course begins October.—Bingmer, Sussex.

Captain Weir can receive Learner on Cotswold Poultry Farm. Moderate terms.—Write, Weir, Wotton-under-Edge.

## PARTNERSHIPS.

**PARTNER WANTED**; married or single; experience and capital essential; to develop fruit and poultry farm, Kent House. Excellent soil and situation.—Box 139, "Eggs," 94, Farncombe Street, London, S.E.16.

Young Gentleman requires another as Partner and Companion to Invest £500 in Poultry Farm; good shooting, etc. Photo appreciated and returned; strictly confidential.—Apply, Box 150, "Eggs," 94, Farncombe Street, London, S.E.16.

Lady (partly trained) wishes Active Partnership in Small Poultry Farm (not Lincs).—Box 153, "Eggs," 94, Farncombe Street, Bermondsey, S.E.16.

## EXCHANGE.

Exchange Four White Wyandotte Cockerels, hatched March, Cam Strain, Bred from Irish Competition Winners, for similar birds year older.—Miss Stephens, Cowl Barn, Colwall.

## WANTED. PULLETS.

Wanted, Pure 1922 Pullets, Reds, Wyandottes, Anconas, Leghorns.—Lumb, Fairfield, Hebden Bridge.

WANTED to Purchase Second-Hand 1,800 Egg Incubator.—Apply, Estate Office, Leighton, Iron Bridge, Shropshire.

S.c. **RED, LIGHT SUSSEX Cockerels**, February-March, good coloured; state dams' records.—Solomon, Dunlop, Ayrshire.

## MISCELLANEOUS.

**WANTED EGGS**. 100 dozen weekly, unfertile; not more than four days old. Wanted for high-class trade.—E. Lindley, Woodhouse Mill, Sheffield.

**WANTED**. Miss-Marked 1922, Pullets. Pure Pullets. Fresh Eggs.—Lumb, Fairfield, Hebden Bridge.

### COMMERCIAL POULTRY FARM.

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Full test investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted to Purchase or Rent **POULTRY FARM** in Home Counties, West or South of England. For from 'about eight hundred to a thousand birds, with or without stock. Small house, about ten acres of land or more.—Reply with full particulars, and price to Box 145, "Eggs," 94, Farncombe Street, London, S.E.16.

## POST REQUIRED.

Ex-Service Man, age 23, desires post on Poultry Farm, 5 years' experience, Utility Poultry, Breeding, Rearing, and Feeding for Eggs, capable of building all types of Poultry Houses, etc. Would build up farm from start if required.—Write, stating wages offered and duties, to Box 148, "Eggs," 94, Farncombe Street, London, S.E.16.

## SITUATIONS WANTED.

**LIVE, ENERGETIC MANAGER**, utility, hatching, etc., wants Position with opportunities; excellent references; state wages.—Box 140, "Eggs," 94, Farncombe Street, London, S.E.16.

## SITUATION VACANT.

Poultryman Wanted. Must have had experience with mammoth incubators and large Brooder Houses. Cottage available and good wages, but only applications from thoroughly experienced and competent men will be considered.—E. Bostock Smith, "Heaslands," Haywards Heath.

### JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris, Newbury.

Once again Offers for Disposal **EGGS AND STOCK BIRDS**, from his **PEDIGREE LAYING STOCK**. **SPLENDID SELECTION OF COCKERELS** and **1921 HATCHED HENS**.

In following breeds at 15/- each. If not approved in three days birds will be exchanged or cash refunded.  
**Croad Langshans**, Sal. Faverolle, Houdan, White Wyandotte, Silver Campine, Ancona, Light and Speckled Sussex, R.I. Red, R.C. and S.C. Black, White and Brown Leghorn, Buff and White Orpington, Buff and Barred Rocks and Minorcas. Eggs, 6/- per doz.; 45/- per 100. Guaranteed 90 per cent. fertile.  
**Aylesbury**, Buff Orpington and Khaki-Campbell Ducks, Eggs 8/- doz. Drakes, 15/- each.  
**White Runner and Fawn Runner Ducks**. Eggs 8/- doz. Drakes 10/- each.  
All Goods carriage paid to any part of the British Isles. **LIST FREE.**

## THE CREAM OF STOCK.

Few March—April, 1922, WHITE LEGHORN PULLETS laying or thereabouts.  
Dams, pure Padman, flock average 184. Sires, direct Warwick Rogers, dams well over 200.  
Net culls, real genuine value, at 25/- EACH. Carriage paid. Approval.

**JACK UNDERWOOD, S.P.B.A.,**  
THE RELIABLE POULTRY FARM, Sutton Bonington, LOUGHBOROUGH.

### S. & J. PARSONS,

The Poultry Farm, Musbury,  
Devon.

Breeders of the Highest Class Pedigree  
Utility Stock in White Wyandottes and  
White Leghorns.

Stamina and Size of Egg a Speciality.

Our birds are consistent winners in the  
various laying competitions, which proves  
beyond doubt the question of stamina and  
high-laying quality of our flock.

Breeding Hens from 8/6 each.  
Selected 1921 Cockerels from 15/- each.  
1922 Pullets from 21/- each.  
1922 Cockerels from 12s. 6d. each.

Our Book, "The Secret of Egg Production,"  
3/.

Further Particulars on Application.

### G. R. PINDER, M.S.P.B.A., N.U.P.S.,

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have 12 winter  
records of 45-60 large eggs, and have been  
bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to  
book a good bird bred from individual high  
record hen in W. Leghorns, W. Dottes.

R.I. Reds and L. Sussex.  
Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Linsday Poultry Farm, Carlton, Louth, Lincs.

## POULTRY BREEDING

### DRIED YEAST.

Analysis.		
Moisture	...	64
Oil	...	4
Albuminoids	...	3
Carbohydrates	...	3
Woody Fibre	...	1
Mineral Matter	...	100

Nitrogen  
Including Sand

### OSSIFIED YEAST.

Analysis.		
Moisture	...	65
Oil	...	12
Albuminoids	...	25
Carbohydrates	...	19
Fibre	...	8.1
Ash	...	21.4
		100.0

\* Containing Nitrogen ... per cent  
† " " Phosphate of Lime ...  
Sand and Silicious matter ...  
Total Food Units ...

### PRICES:—

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales  
Cash with Order.

**THE ENGLISH GRAINS Co., Ltd.**  
Derby Road, BURTON-ON-TRENT.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from 40/-
1921	" 12/-
1920	" 10/-
1919	" 6/-

Specially Selected Cockerels from 6/-

Phone:— 6 Chadwellworth.  
Grains:— "Sonimor, Leckhamstead."

# EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE.

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

## MARMITE

The remarkable  
Yeast Extract which  
gives such startling  
results when fed to  
growing chickens  
and also to pullets  
which are slow  
coming on to lay.

See correspondence  
columns.

1-lb. 14-ozs. Carriage  
Paid, 6s. 8d.

**Mrs. RAINE,**  
Ketisham Poultry Farm,  
HEADCORN, KENT.

### W. MASON, M.S.P.B.A., P.C.,

Littledale Poultry Farm, Halam,  
Near SOUTHWELL, NOTTS.  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
various ages in White Leghorns, White  
Orpingtons, Light Sussex, Anconas (s.c.).

Inspection Invited. Cash or Deposit.

BARNEVELDER PULLETS, 3-4 months old.  
CHICKENS, 4 to 5 weeks old.

Also Good BREEDING PENS of 20/21  
Many Testimonials as to Enormous Success.  
EGGS, 40/- per 100.

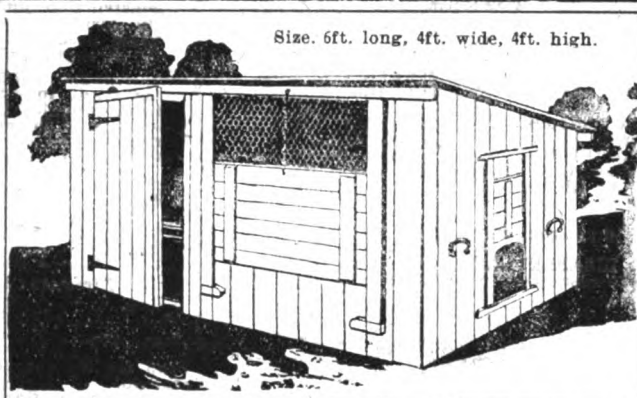
LAKENVELDER and all kinds of Water-  
fowl, Peafowl, Pheasants, Partridges, etc.  
Send Threepence for reply to—

**G. VAN HECK,**

199, AMSTELDY K. AMSTERDAM.  
3d. Stamp to Holland.

# GREAT REDUCTIONS AT HEBDITCH'S

The Wonderful value in Poultry Houses at Hebditch's offers a rare opportunity to all Poultry Keepers who are on the look-out for really First-Class Houses at very Exceptional Prices.



Size. 6ft. long, 4ft. wide, 4ft. high.

The "Dreadnought" is made of 5/8 in. Best Swedish tongued and grooved boards.

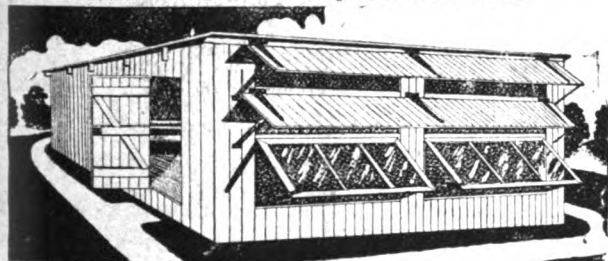
We Pickle any Poultry House by immersion in Preserolium at 1s. 6d. in the £ extra.

THE  
**'DREADNOUGHT'**  
*Reduced to*  
**46/-**

Three for £6 13s. 0d.; Six for £13 2s. 6d.; Floors 13s. extra. Carriage paid England and Wales. Immediate despatch.

## The "MARTOCK" Intensive House.

A House specially designed for intensive work. In all its details it conforms to what experience shows to be necessary for getting the best results from the Intensive System. It is made of 3-in. V-jointed, tongued, best Swedish Deal boards. The frame is of 2 x 3 Deal, and the floor is laid on 2 x 3 pickled joists for all the sizes above No. 1. It is sent in sections with bolts and spanner for erecting

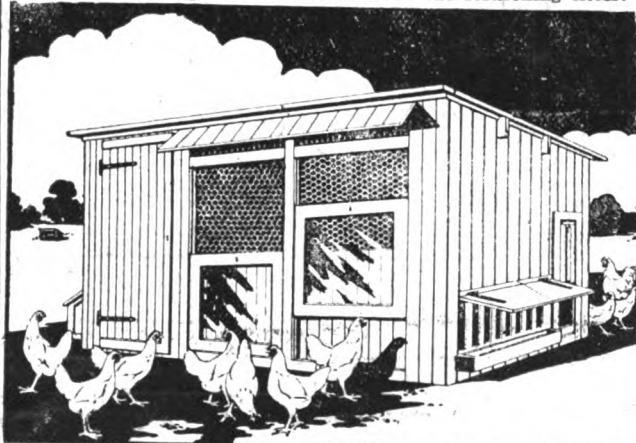


Sizes and Reduced Prices. Carriage paid England and Wales.

No.	Ft. Lng.	Ft. Wde.	Ft. high front.	Ft. high at back.	£ s. d.	Floors Extra. £ s. d.
1	6	10	6 1/2	4 1/2	12 16 6	2 17 6
2	10	10	6 1/2	4 1/2	17 14 6	4 5 6
3	10	16	7	4 1/2	23 11 0	7 9 6
4	20	16	7	4 1/2	39 3 0	14 4 6
5	30	16	7	4 1/2	57 10 6	20 7 0
6	40	16	7	4 1/2	76 10 0	26 9 6
7	50	16	7	4 1/2	95 15 6	32 12 0
8	60	16	7	4 1/2	114 2 6	38 14 0
9	70	16	7	4 1/2	132 3 6	44 16 0
10	80	16	7	4 1/2	150 10 6	50 19 0
11	100	16	7	4 1/2	188 10 0	63 3 6
12	120	16	7	4 1/2	223 7 6	75 8 6

## The "EXCELSIOR" Semi-Intensive House.

A most popular House of which we sell large numbers. Made of 3-in. best Swedish Deal boards, which are tongued and grooved and V-jointed. It is provided with wide dropping board, which keeps the house clean for the scratching litter.



No. 1 is 9 ft. long, 5 ft. wide, 5 ft. 6 in. high.  
No. 2 is 12 ft. long, 6 ft. wide, 5 ft. 8 in. high.

No. 1 has two glass windows. No. 2 has three glass windows.

Reduced Price—No. 1, £7 8s. 0d. Floor 25/6 extra.

Reduced Price—No. 2, £9 15s. 6d. Floor 39/- extra.

Carriage Paid England and Wales. Prompt Despatch.

**HARRY HEBDITCH, Ltd.,** Desk J, The Poultry Appliance Works, **Martock, Somerset.** Phone: Martock 2  
IN OUR CATALOGUE IS LISTED PRACTICALLY EVERYTHING THE POULTRY-KEEPER REQUIRES. GET IT, IT IS SENT FREE.



Won equal 2nd Prizes at N.U.P.S. Westminster Poultry Show, Feb. 1921.  
Also shown at Young Farmer's Stand at "D.M." Ideal Home Exhibition.  
No. space between gate and post.

Gate. Post.

Post. Gate.



Space of 1 in. or more  
between gate and post.

Patent No. 167918.

1 in. in depth of wood cut out to  
allow handle to turn.  
Fix latch aft. pin. to aft. pin from  
ground.

#### CLAIMS IN ITS FAVOUR

- 1.—As soon as the handle opposite to that being held touches the gatepost (the gate still being 3 to 4 inches open), a downward motion AUTOMATICALLY draws the gate to the post, thus securely closing it.
- 2.—There being no attachments to the gatepost, as long as the gate clears the ground, the latch is in no way affected by the post on which the gate hangs DROPPING.
- 3.—Can be fixed on a gate of ANY thickness of wood up to 2 inches, and jaws can easily be adapted to fit ANY gatepost of from 2 to 3 inches in thickness, and latch can be screwed into place in ONE MINUTE.
- 4.—Can, with equal ease, be opened and shut from BOTH sides, with BOTH hands occupied.
- 5.—Best latch for use at NIGHT and for DISABLED and BLIND men.
- 6.—NOTHING to go wrong or get out of order. Once purchased will last a lifetime.
- 7.—It is THE latch for YOU.

Price 1/- Each.

Postage extra: 1 for 4d.; 6 or 12 for 1s. Trade supplied.

THE ONLY POULTRY LATCH ON THE MARKET.

SOLE MANUFACTURER—R. O'H. P. THEOBALDS,  
White Wings Poultry Farm, ST. MARY BOURNE, nr. Andover.  
Breeder of Utility White Wyandottes from Tom Barron Strain direct

## Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the fowl is housed. For maximum egg production the houses must be roomy, well-ventilated, and draught proof, and thoroughly stable even the highest winds. Moreover, for operating even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house.

## but only in SLADE HOUSES

do you find them at a price which is economical sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter section being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing any thing of factory overheads the saving here will be obvious.

## SLADE SYNDICATE, LIMITED.

(Directors: E. J. W. and M. W. Slade).

28, WOBURN, PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.



The  
**S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.

1/- post free.

TOM NEWMAN,  
The Beeches, Rudgwick  
HORSHAM, SUSSEX.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches.  
1 doz., 1/3; 50, 3/6; 100, 6/6; 250, 15/-.

Trap-Nesting Record Books, 6/-.

Hatching Record Books, 7/6 and 11/-.

Stud Books for Fowls, 6/-.

Incubator Records, 1/3 doz.; 7/- per 100.

Backyarder's Complete Record, 8d.

Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKES, LEICESTER.

Try us for your WET AND DRY MEAT made to your own requirements.

We offer the following:—

NEWMAN'S POULTRY MASH ..... per  
MIDD'S .....  
BEAN BREAD .....  
BEAN ORDINARY .....  
MAIZE GLUTEN FEED .....  
SUSSEX GROUND OATS .....  
BISCUIT MEAL .....  
CLOVER MEAL .....  
ENGLISH CLIPPED OATS .....  
Special Line Best MEAT MEAL .....  
Everything for the Poultry Keeper kept  
Stock

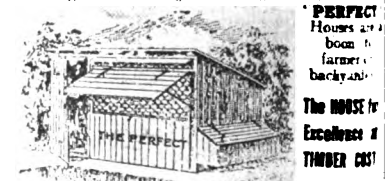
Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HAAL, HADLEIGH, ESSEX.

THE "PERFECT," 6 x 4 x 4, 35/-

Is the house you must have to obtain maximum production during winter months and is also the ideal Fancier or Breeder's Pen. Constructed of best of materials, with lifting or sliding shutter, HEN'S



L. W. H.	Price.	Reed Felted.	Fl. & Joist.	With Siding.
4 x 3 x 4	£1 10	3 0	8 6	1 6
6 x 4 x 5	£2 10	4 6	12 6	1 6
6 x 5 x 5	£3 5	5 6	15 0	1 6

3 Outside St. Boxes, 11/- See Cat other sizes & types.

**HENRY BROS.** Blackbridge & Walls St.  
Camberwell, S.E.5.

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Disease.

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

PULLETS

TESTED BREEDING  
HENS

STOCK COCKERELS

Guaranteed Pedigrees from  
400 to 1,000 egg hens.

All ages.

Complete Trapnest Records

**Let SPRATT'S**  
**Ship your Livestock,**

Relieve you of every worry from start to finish, insure your birds, and deliver them in perfect condition to any part of the world.

Spratt's will help you to satisfy your foreign and colonial buyers by packing and shipping your birds in first-class style. Poultry is shipped in specially designed coops, you are relieved of every detail from start to finish. Insurances effected. Write for particulars to

Shipping Department,  
**SPRATT'S PATENT LIMITED,**  
24, Fenchurch St., E.C.3.

**Eggs Insured**

in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
**Egg Boxes**

Insurance Policy with every Box. Catalogue Free.


**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**PURE SWEET STERILISED BLOOD.**

**RENTOX (Regd.).**  
7 lb. bag sent post free for 1s.  
Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,**  
BORDENLEY STREET,  
BIRMINGHAM.

**The 'QUENIBOROUGH'**



A most Useful Poultry House, well and substantially built. Complete. No Extras.

5ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6  
6ft. x 6ft. x 6ft., £7/0/0. Floor 21/-

5 per cent. Discount to Members S.P.B.A.  
Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT. A., QUENIBOROUGH, LEICS.



## Mr. Stubbs on Poultry Food Prices

*Monthly Talks on Poultry Matters.*

THE conversation of Mr. Stubbs usually consists of "Wot's yours?" "Mine's another." It is only when he gets on the subject of poultry that he becomes really talkative. Mr. Stubbs has hundreds of high-class birds, and people say that when he comes home from a poultry show with only a second prize he regards himself as disgraced.

So he always pauses when he passes my garden to have a word or two about my hens.

"Making much money out of that lot? enquired Mr. Stubbs.

"Well, poultry keeping's only a hobby with me."

"If it's a hobby I'll lay a bet it'd be cheaper to buy your eggs from the grocer. Why don't you make it a business same as me? There's no reason that lot o' yours shouldn't pay handsome."

"Well, they don't."

"That's because you don't think of the price of your poultry food. That's what runs up your costs. Give 'em Uveco Poultry Food—costs less—goes further—more eggs. That's business, paying less and getting more."

"But I give them a good mixture."

"Young feller, me lad, I don't want to 'ear about no mixtures. I've forgot more about poultry than most men ever knew. You want to get best value for your money in poultry food. That's Uveco Poultry Food. It's the cheapest food just reckoned by weight. It's ready cooked and quick digested. Every bit of it feeds 'em and there's no waste like when you feeds 'em raw grain."

"What's it cost, Mr. Stubbs?"

"You can get a free sample—a seven pound bag for 16—but if you've got a bit o' sense you'll buy Uveco Poultry Food in quantity like me—my last lot was 19/- delivered at the station. It's a bit more or a bit less according to whether you're near or far from their mills. They gives you the benefit of the freight. Get the food right and you'll make them hens pay handsome. Keep 'em on your blooming mixtures and they'll just be a 'obby, and a dear one at that."

And muttering indignantly, "mixtures," Mr. Stubbs strode on his way.

**UVECO CEREALS, Ltd.**  
60, Cunard Buildings, LIVERPOOL;  
Bermondsey Wall, LONDON, S.E.16.

## DRY MASH, For Egg Production.

16/6 cwt. Carr. Paid

### CHICK MASH

Frame  
Builder.

18/6 cwt.

Carr. Paid.

### 'CLOFALFA' MEAL.

From Genuine  
Alfalfa  
and Clover.

**FAM**

15/- 100 lbs.

Carr. Paid.

'Phone 130

Fish Meal.

Meal Meal.

Biscuit Meal.

Palm Kernel

Meal.

Rice Meal.

Maize Meal.

Maize Germ.

Sussex

Ground Oats.

Flaked Maize

K'bled Maize

Soya Bean

Meal.

English do.

P'ltry Wheat.

Poultry Oats.

Dried Yeast.

Dried Butter-

Milk.

Dried Full

Milk.

Brit & Shell.

## PHILIP CHURCH & SONS,

SWAN WHARF,

**BISHOP'S STORTFORD.**

DISCOUNT TO MEMBERS S.P.B.A.

## "The Present Position."

Well, what's wrong with it?

Isn't the price of Eggs going up and the price of Feeding Stuffs going down?

Everyone knows about the price of eggs, and here is proof positive about feeding stuff:—

**New English Wheat, 12/6 cwt.,  
£12 ton.**

Newman's Poultry Mash (still further reduced), 14s. cwt., £12 10s. 0d. ton; both bags free and carriage forward.

Remember, Newman's Poultry Mash can be fed WET OR DRY and to Ducks and Chickens (in the latter case diluted with bran or clover meal) as well as poultry.

Cut out that longitudinal expression: Grit your teeth and carry on.

We'll Help You.

**FRANK SHEARN & CO., Ltd.**  
MIDSOMER, NORTON, SOM.

'Phone 51.

Poultry Breeders. Vendors of all kinds of Poultry Goods.

**POULTRY KEEPERS**

Follow the Advice of a well-known Expert who knows How to Make Poultry-keeping Pay

Read the following Extracts from a letter which appeared in "Eggs," on April 26th, 1922:

"Golden Cross Poultry Farm,  
Hough Green, Widnes.

"We were using ordinary Fish Meal with our mixture until you recommended Fish Meal impregnated with Liver Oil. We at once obtained the latter, and the RESULT HAS BEEN VERY GRATIFYING. We have compared our results with the corresponding yield of last year, and there is a 10 PER CENT. INCREASE IN OUR RETURNS. We have also impregnated Fish Meal in our chicken mash, and we are satisfied that it is beneficial."

(Signed) H. BROOKSBANK

Since the above letter appeared Messrs. Bicol Ltd., has received the following from Mr. Brooksbank:—

"The impregnated Fish Meal which I used was BYCOLLA. Such undeniable evidence is clear proof that Bycolla is one of the finest health-sustaining and most nutritious foods now on the market, and every Poultry Keeper should order a supply from his dealer, and watch results."

**BYCOLLA****CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL,**

BYCOLLA is extremely economical, one ounce per day being sufficient for 6 hens. This works out to a cost of 0.04 of a 1d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spice should be given.

BYCOLLA contains the purest Veterinary Cod Liver Oil obtainable, and no finer tonic can be given to keep stock in good condition. It is guaranteed to have no effect whatever on the taste of the flesh or eggs if mixed with the ordinary daily feed in the proportion of 10 per cent. BYCOLLA to each mash.

BYCOLLA is wholesome and appetising and birds fed on it are firm of flesh, glossy in feather, full and ruddy in comb, vigorous and productive, giving abundance of eggs all the year round. It is also unequalled for rearing strong healthy chicks which are impervious to disease, come to early maturity and are kept in better condition than by any other known method of feeding.

BYCOLLA Analysis gives a very high proportion of Food Units, viz.:—164, as follows:—Albuminoids, 60 per cent. Oil, 8 per cent. minimum. Salt, 3 per cent. maximum.

**Price 28/- per cwt.** Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Bags Free. Carriage Paid in England and Wales.

Terms: Cash with Order.

Bycolla is also sold by dealers at 2s. 3d. per 7lb. bag. If your dealer does not stock, kindly send name and address. Cost of postage refunded.

SEND FOR SAMPLES TO

**BICOL LTD., HOPE STREET, GRIMSBY.**

(Factory: PYEWIPE, GRIMSBY.)

**PEDIGREE STOCK FOR SALE.****HILLCREST POULTRY FARM**  
(Established 1916).  
**BASILDON, ESSEX.**

An Exceptional Opportunity of Obtaining Special Birds for Breeding.

Our 1922 Special Breeding Pens, consisting of 90 (1920) White Leghorn Hens, sired by Tom Barron Cockerels, sons of the famous LADY EGLANTINE (314 eggs), from hens by Sons of the Harper-Adams' Laying Competition Winners. Price, 7s. 6d. each. Also 100 (1921) White Leghorn Pullets, by the above sires, 7s. 6d. each.

Special White Leghorn Cockerels (March, 1922), by Tom Barron, Sons of LADY EGLANTINE. Others from Cam's Special Pens, by sons of Cam's 287-egg hen. Price, 15s. each.

Special R.I.R. Cockerels (March, 1922), by Very Special Boucher Cockerels, sons of a 942 eggs in four years hen. Price 15s. each.

Khaki-Campbell Drakes, from sisters to Captain Long's famous Bentley Laying Competition Winners. 15s. each.

All Breeding Pens on our farm have been sired by birds from hens of guaranteed trap-nest record since it was established.

Fuller Particulars on application to G. WELER, Manager.

**NOTE THESE PRICES!**

Then compare QUALITY and NUTRITIVE VALUE in relation to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

**MEALS**

Maize Meal (fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Barley, Oat Feed, Barley Meal, Biscuit Meal (Poultry), Service Meal (fine), Cockle Shell, Flint Grit, Mixed Grit, Pure Oyster Shell, in K. and E. Sizes.

Prices on Application.

Resolve to try these ECONOMIC QUALITY FOODS to-day. Order through Secretary. S.P.B.A., and get your discount.

The Service Food Co.  
VICTORIA MILLS  
GRIMSBY

**CARBERY Poultry Farm**  
St. Ackbridge, HANTS.**1920 and 1921 HENS FOR SALE**

White Wyandottes  
Rhode Island Reds  
Black Leghorns and  
White Leghorns

5/- to 10/- Each.  
according to age and Record

All with Records from 1915  
Individual Records Su

Stock Cockerels of  
Breeds. Prices on App

# Laying at 8 Years Old.

**ACTIVE,  
BRIGHT-EYED,  
TIGHT-FEATHERED,  
PAYING A PROFIT ON HER KEEP,  
ENJOYING ALL THE NECESSARIES OF PERFECT HEALTH.**

COMPARE this good hen (owner's name supplied) with thousands of others, finished at 2 years old, exhausted, laid out, "done to the wide."

## Why are the others (p)layed out?

Are they well fed? **Yes.**  
Getting enough Protein? **Yes.**  
Enough Mineral Salts? **NO!**

The MINERAL SALTS are the vital link between food and function (digestion, egg laying, fertility, etc.). The hen utilises the mineral salts to convert the protein into the chemical forms needed for the various bodily functions, such as digestion and absorption of food, egg production, etc., etc.

**PROTEIN, in the absence of the mineral salts,  
IS DEAD.**

See "The Chemistry of the Protein," by Mann.

**MORAL** BE WISE IN TIME; BE WITH THE TIMES, NOT BEHIND THEM, and make good any possible mineral defect in your mash by the regular use of the richest NATURAL MINERAL SALTS CONTAINING FOOD KNOWN, and the only safe one—

# Salubrene

This Hen will be shown at the  
**ROYAL LANCASHIRE SHOW, PRESTON,**  
**SEPT. 6th to 9th. on the Stand of**  
**HENRY WHITEHURST & SONS,**  
**BOLTON. No. 112.**

Corn Merchants keep Salubrene in packets at 1/3 each.

We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

A month's supply for 20 birds post free 1/6

Full instructions for feeding Salubrene to chickens, layers and breeding pens free.

Successful Poultry mashes for all purposes free for card.

Write to—

THE  
**ALGIN COMPANY, Ltd.,**

(Desk E),

12, Norfolk St., Strand,  
London, W.C.2.

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank."



Stanbridge Grange,  
Staplefield, Sussex.  
16th August, 1922.

Dear Sirs,  
I started using Salubrene nearly a year ago; I thought I would give it a trial during the moulting season, as the excessive dry weather had left even our very large grass runs almost bare, and I was afraid that the lack of mineral salts, caused thereby might seriously affect the health of the breeding stock. I am glad to say that the results were even better than I hoped for.

During the hatching season I decided to try Salubrene with some of the young stock. I used, for 3 week-old birds, a tablespoonful in their dry mash, and was so pleased with the results that I used it during the remainder of the hatching season with all the birds. I have recommended Salubrene to a number of my customers and also excellent Alfalfa

(Signed)  
FLORENCE KENT."

Mrs. Kent is one of the largest poultry raisers in the South of

England.

is on App



# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

**Corrugated**



**Roof Sheets.**

Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed  
PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

**The British Fibrocement Works, Ltd.**

Manufactured only at **ERITH, KENT,** Head Office and Works.  
Telephone ERITH 89.

London Office: Central House, Kingway,  
Telephone: GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.  
Telephone: CENTRAL 7292.

Manchester Office: 97, Bridge Street.  
Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.  
Telephone: BRISTOL 272.

Also at Glasgow, Swansea, Dublin and Belfast.

**Day by Day**  
in every u  
your POULTRY

pay you better and do themselves

IF YOU USE THE

## VENN-CAF

Automatic Dry Mash Hopp  
Automatic Scattering Corn F  
Drinking Fountains  
Poultry Houses, etc.

They make poultry keeping pleasant  
without tying you to the home.

For the professional, as others, they  
time therefore save you money, ena  
you to give more time to that very n  
sary item in successful Poultry Farm

DETAIL.—They cut your Feeding Cost 25

Write for Illustrated Catalogue, post 1

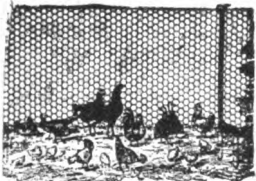
EVERYTHING SOLD WITH A GUARANTEE

**VENN CARR, DEPT. 8**

Maidstone Poultry Farm Appliance Works  
Medway Street, MAIDSTONE.

### BEST ENGLISH GALVANISED

### Wire Netting



OF SUPERIOR  
and GUARAN-  
TEED QUALITY.  
Heavily Galvanized.  
Direct from Factory.  
Made in Norwich,  
England. Greatly Re-  
duced Prices. £8 5s.  
lots carriage paid  
England and Wales.  
50 yard rolls.

Our netting rolls out straight and flat  
like a carpet. If prices are lower than  
ours, it is highly probable that it is  
Foreign and Inferior.

#### Special Lines—

Prices strictly net. Sole terms—Cash with  
order.

mesh	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	gauge
	Wide	Wide	Wide	Wide	Wide	Wide	
1in.	9/-	16/4	23/2	30/11	38/7	46/4	20
2in.	5/6	10/-	13/7	18/1	22/7	27/1	19
3in.	4/-	7/2	9/10	13/2	16/5	19/8	19

Sheep Netting, 3-ply Selvages, 4 in. mesh, 16  
gauge, 36 inch, 15/8; ditto, with centre  
strand, 17/8. Special Galvanized Netting  
Staples, 3/6 per 1,000. Strong Wire Netting  
Pegs for holding bottom selvage to ground,  
1/6 per dozen. Galvanized Binding Wire,  
10d. lb. Best Wire Cutters, 2/6 pair. For  
all other sizes, gauges, and widths see  
large list, free. Special low quotations for  
best Galvanized Barb. Fencing, Strand and  
other Wires. Corrugated Galvanized Sheets  
and Accessories. Sanded Roofing Felt, no  
tarring required, 15 yds. x 1 yd. rolls, 5/6  
per roll, carriage paid 20 rolls. Wicks  
Bros.' Advertising Line, the Poultry  
Keepers' Tool Set, containing eleven tools,  
including hammer, 2/- per set. All car-  
riage paid.

**WICKS BROS.,** Wholesale  
Wire Works.

28, CATTLE MARKET, NORWICH.

Phone: 1438. Contractors to H.M. Government.  
All prices subject to alteration without  
notice.

## The Mash that Makes More Eggs

FUL-O-PEP Dry Mash (laying grade) is the result of years of  
study of birds' natural diet by the world's greatest cereal experts.  
It contains:—

Protein, 20 per cent. Fat, 4 per cent. Carbohydrates, 45 per cent.

and is the closest possible food combination to Nature's Spring-  
time foods, ensuring prolific egg production. Given the  
FUL-O-PEP way this Dry Mash is always before the birds,  
yet they cannot over-eat. In fact, the more they eat, the  
better they lay.

Write for a free copy of our FUL-O-PEP Year Book (Guide & Calendar),  
and you will be at once enrolled a member of our Free Advice Bureau.  
State your difficulties and our Poultry Expert will gladly help you.

### GROWING MASH.

For pullets till matured or six  
months old. This food has  
been found to produce more  
pounds of gain in weight on  
less feed than any other feed  
on the market.

### SCRATCH GRAINS.

The highest quality "scratch  
feed" on the market—con-  
tains corn, wheat, buck-  
wheat, barley, sunflower  
seed, etc. Just right for the  
hens' "upkeep."

### CHICK FEED.

A most carefully blended  
feed, comprising oatmeal,  
wheat, corn, etc. Given the  
FUL-O-PEP way, it as-  
sures the life of almost every  
chick hatched.



# FUL-O-PEP

POULTRY FEEDS

QUAKER OATS Ltd.

Finsbury Square, London, E.C.2

# TEST IT!

WE want you to make a thorough test of MILKO Laying Meal. It will be to your advantage to lose no time in doing so.

MILKO foods are the original milk foods for poultry. They supersede all others by reason of their being based on milk and carefully balanced by poultry experts. They do not contain spices or other harmful condiments. Only pure meals and specially prepared best quality milk used.

MILKO Laying Meal is the food you need right now. By regularly using this meal all the year round you will get increased egg-production, healthier birds, and better hatching and rearing results. A FOOD BASED ON MILK . . . PROVIDING IT IS PREPARED IN THE PROPER MANNER. . . . GIVES BETTER RESULTS IN EVERY POSSIBLE WAY than one prepared on any other animal matter.

Get out of the rut. Be progressive. MILKO foods are the foods that are now used on many of our leading poultry farms. The owners of these farms run them for profit, they now use MILKO foods exclusively because it is the great profit getter.

Be wise . . . send an order for MILKO Laying Meal TO-DAY. The price is only 23s. per cwt.; 4 cwt. 24 8s.; 10 cwt. 210 10s. ALL CARRIAGE PAID.

A little extra money spent on MILKO foods is saved over and over again by reason of the wonderful results obtained. If you are progressive you will start right now to use MILKO foods.

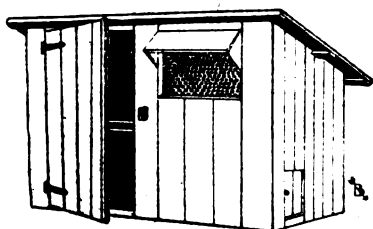
**MILKO FOOD CO.,**  
Fleet House, Fleet Street,  
LONDON, E.C. 4.

## LIGHT SUSSEX PULLETS.

Some Really High-Class UTILITY PULLETS, Jan. Feb. & Mar. Hatched  
Prices from 21/- each.  
Inspection invited.

**W. P. HARMER,**  
HADLOW-DOWN, SUSSEX.

36/6. F.o.r. Redhill.



Special Offer to "EGGS" Readers Only.

Size, 6ft. long x 4ft. high x 4ft. wide.  
Best Material. Best Workmanship.  
1 Matchboard. Strong Framework.  
Complete Sections. Two Perches.  
FULL CATALOGUE ON REQUEST.  
Galvanised Corrugated Iron Sheets.  
Best Quality Heavy 26 Gauge, 27in. wide.  
2/6; 6ft., 3/-; 7ft., 3/6; 8ft., 4/-; 9ft., 4/6  
per sheet.

WRITE FOR OUR SPECIAL TIMBER PRICE LIST.

**The SURREY VALUE CO.,**  
GARLANDS RD., REDHILL. Phone 290.

"Eggs" gives to Advertisers and their goods a prestige and quality reputation that no other publication can give.

## PLANOK TRAPNESTS

The simplest and cheapest on the Market.

Made in sets of two, comprising two complete nest boxes and trap fronts.

10/6 per sample set, carr. paid.  
7/6 per 3 sets and more, carr. fwd.  
7/0 per 25 sets and more, carr. fwd.

These nests also supplied "knocked down" or in the flat.  
Every Fitting Provided.  
Multiples of 10 sets only.

10 sets and more, 6/0 per set, carr. fwd.  
20 " " 5/6 " "  
30 " " 5/0 " "

Fuller Particulars on Application.

**WORSSAM & ABBOTT**  
PYRCROFT HOUSE,  
CHERTSEY.

## BEST ENGLISH RINGS

These are NOT the Cheap Imported but English Made.



LARGE STOCKS HELD.



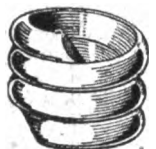
### SPIRALS IN TEN COLOURS.

Red, Green, Light Blue, Violet, Dark Blue, Yellow, Pink, Brown, Black, White.  
PLAT BANDS, in 10 plain colours, 5 stripes. Aluminium, any Number and Year.

### ALL ONE PRICE.

	500	400	300	150	100	50	25
Day-Olds	10/-	8/-	6/-	3/-	2/-	1/3	1/3
2 months	13/6	11/-	8/6	4/3	3/-	1/6	1/3
Half-Grown	15/-	12/-	9/6	5/3	3/6	2/-	1/6
Light Breeds	25/-	20/-	15/6	8/3	5/3	3/-	1/6
Heavies	28/-	21/-	16/6	8/3	5/3	3/-	2/-

All Subject to 5 per cent. Discount.  
An Extra 5 per cent. to M.S.P.B.A.  
Post Free.



FULL LIST POST FREE.



These are not the Imported, which are much too flimsy.

### VERMICIDE.

A most powerful Killer of Vermin and all parasite life. A good disinfectant for incubators, Brooders, Houses, etc., etc.

### ONCE USED, ALWAYS USED

1 Pint. 2/6; 1 Quart, 4/6; 2 Quarts, 8/6; Gallon, 8/6.  
Carriage Paid.  
Less 5 per cent., S.P.B.A.

### PENETRAS.

### FINEST PRESERVATIVE ON THE MARKET.

Not the Ordinary so-called Creosote. 1 or 2 gals., 3/3 gals.; 5 gals., 3/- per gal. 40 gals. (or about), cask £2 10s. 8d. Tins free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

### FENCING STAKES.

Per 12. Pointed and Penetrated. 4ft., 8/6; 5ft., 7/3; 5ft., 8/-; 6ft., 8/6; 6ft., 9/3; 7ft., 10/-; 7ft., 10/6.  
Less 5 per cent., and an extra 5 per cent. to S.P.B.A. All Carriage Forward.

### GALV. WIRE NETTING.

	24in.	36in.	48in.	60in.	72in.
1in.	17/2	24/5	32/7	41/7	48/9
2in.	10/6	14/3	19/-	23/0	28/6
3in.	7/11	10/11	14/6	18/2	21/9

Per Roll, 50 yards. Carriage paid orders £7.  
Less 2 1/2 per cent. and an extra 2 1/2 per cent. S.P.B.A.

### FINE BISCUIT MEAL.

As used on my own farm. Splendid Egg producer and doubles its bulk, 24/- cwt. Carriage paid.

Reduction on ton lots.

FLINT GRIT, 3/6 cwt., carriage fwd.  
OYSTER SHELL, 10/- cwt., carriage fwd.  
COCKLE SHELL, 7/9 cwt., carriage fwd.  
Less 5 per cent. and an extra 5 per cent. S.P.B.A.

### TRAP-NEST FRONTS.

One of the Simplest and Noiseless Traps on the market.  
4/6 each, post free. Six or more, 4/- each. Reduction on large quantities.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.,**

The Leading Maker of Good Appliances in this country,

Hamworthy Junction, Dorset.

We are **EXPERTS** in all kinds of  
**GRAIN and MEAL for POULTRY**  
**FEEDING and for the PRODUCE**  
**TION OF EGGS.**

	per owt.
<b>CHAMPION MIXTURE</b>	<b>22 0</b>
<b>A.I. MIXTURE (with or without</b>	<b>20 0</b>
<b>Malts)</b>	<b>18 0</b>
<b>X.B. MIXTURE</b>	<b>17 0</b>
<b>X. MIXTURE</b>	<b>16 0</b>
<b>CLIPPED OATS (Heavy)</b>	<b>21 0</b>
<b>CHAMPION LAYING MEAL</b>	<b>21 0</b>
<b>CHAMPION DRY MASH</b>	<b>21 0</b>
<b>CHAMPION CHICK FOOD, No. 1</b>	<b>27 0</b>
<b>CHAMPION CHICK FOOD, No. 2</b>	<b>27 0</b>
<b>CHAMPION DRY CHICK MASH</b>	<b>23 0</b>
<b>CHAMPION PULLET MIXTURE</b>	<b>22 0</b>
<b>SPECIAL KIBBLED MAIZE</b>	<b>18 0</b>

**DISCOUNT:**—6d. per owt. for 5 owt.  
and over; 1s. per owt. for 10 owt. and  
over.

For other Specialities see Price Lists.

Our own vans deliver in **LONDON** and  
**SUBURBS DAILY** in quantities of **7 lbs.**  
and upwards to meet the **REQUIRE-**  
**MENTS OF ALL.**

**NO DUST OR WASTE.** Mixed and Well  
Cleaned by Special Machinery.

Samples and Price Lists free on application to  
**WILLIAM BRINKLER & SONS, Ltd.**  
Pigeon & Poultry Food Dept.,  
(5) **CLAPHAM GRANARIES, LONDON, S.W.4**  
Telephone: **BATTERSEA 211.**

## West Mersea Poultry Farm, ESSEX,

Nr. COLCHESTER G.E.Ry.

### EXCEPTIONAL OPPORTUNITY.

#### Room Wanted for Young Stock.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 9s. 6d..  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records,  
etc., with pleasure.

## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value  
is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th A  
Col. Hardy says:—"As regards chick rearing I have found the use of  
Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Butter  
will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK** - 24/- per cwt.

In 200-lb. casks. Small quantities in lined bags.

Also for fattening:—

**SWEETENED CONDENSED MILK**— 8/- per case of 48 tins.

**GENUINE SUSSEX GROUND OATS** 16/- per cwt.

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London

**CARR, MACDONALD & CLEVELY, LTD**

**BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.**

**6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.**

### BEFORE YOU BUY

Allow me to Quote and Sample you for  
**LAYING MEAL, SPECIAL GRAIN MIX-**  
**TURES, PREPARED GRAIN, and ALL**  
**FEEDING STUFFS.**

**FOODS OF GUARANTEED QUALITY AND  
REPUTATION AT LOWEST MARKET PRICES.**

\* **SATISFACTION ASSURED.**  
By Mailing your Requirements to

**W. H. FLOYD,**  
Poultry Food Specialist,  
King's Lynn, Norfolk.

### PRE-WAR PRICE

12ft. x 8ft. Span-Roof Houses, with  
windows, £9 9s. 6d., f.o.r.

8ft. x 6ft. x 6ft. high Lean-To Houses.  
4 windows, £5 5s. 6d., f.o.r.

Above built of 3 x 2 frame and  
T. and G. Boards.

Satisfaction guaranteed. Any de  
quoted for. For one week only 25 per c  
discount. Terms Cash with Order.

**J. C. ASPIN, M.S.P.B.A.,**  
432, BLACKBURN RD., DARWEN, LAN.

## W. A. BAINBRIDGE,

Keyneston Manor Poultry Farm,

**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**

**Light Sussex.**

**Sittings of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.**

**Only the VERY BEST supplied.**

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels  
from large egg, high record L2 Hens.**

September 6th, 1922.

EGGS.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2 Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM, LONDON, N.15.

### 1921 PULLETS, 6/- each.

White Leghorns and S.c. Anconas. Proved L2 Birds, and will make excellent breeders for next season. Carriage Paid on Six.

#### STOCK COCKERELS.

White and Black Leghorns and S.c. Anconas. April hatched from L2 stock. 7/6 and 10/6 each. Carriage Paid.

All Birds sent on approval against remittance or deposit.

Crates to be Returned.

MARKHAM, SONS and ALLOTT, S.P.B.A.  
QUENTIBOROUGH, Near LEICESTER.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

Supplied on Application FREE OF CHARGE by the Manufacturers of

# FLUID IZAL POWDER

## DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A LITTLE IZAL POWDER dusted amongst the Feathers instantly kills the Birds of FLEAS, LICE and such Parasites.

#### IZAL FLUID.

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

#### IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Bag.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.



**AMERICAN OYSTER SHELL,****Special offer.**

1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 5/9. Free on Rails, Liverpool. Cash with order.

**THE BRITISH AMERICAN SHELGIT Co.,**

Bank Chambers,

602, MARSH LANE, BOOTLE, LIVERPOOL.

Phone: 606 Bootle.

Telegrams: Poultry, Liverpool.

**"UTILITY" TRADE MARK  
POULTRY FOODS.**

REAL BARGAINS.

Special Offers to S.P.B.A.

	per cwt.	s.	d.
1000 bags Manitoba Feed Wheat	11	0	
500 bags American Dair Seed	10	0	
500 bags Clipped Heavy Oats	11	0	
500 bags Best Mixed Fowl Corn	12	0	
500 bags Maize Gluten Meal	12	0	
500 bags Best Quality Fish Meal	14	0	
500 bags Fine Biscuit Meal	14	0	
500 bags Best Sussex Ground Oats	15	0	
500 bags Light Wheat	9	0	
150 bags Coarse or Fine Charcoal	14	0	
500 bags Best Quality White Wheaten Meal	13	0	

F.O.B. Liverpool. Bags in. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL.**

Phone: 2586 Royal. Telegrams, "Emphatic." Established 1868.

**DR. J. H. BALDWIN,**  
**SPRINGFIELD P.F. WIMBORNE, DORSET.**

**ONLY THE VERY FINEST STOCK in**

**White Leghorns,**

**White Wyandottes,**

**R. I. Reds (s.c.)**

**Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.**

If you get them from "Hometlast" it means **SATISFACTION.**

**ANCONAS, LIGHT SUSSEX,**  
and The Adjustable Trap-Nest Front  
(Free. Pat.) Sample, 3/6.

**VICTOR P. WILLIAMS,**  
Hometlast Poultry Farm, BEXHILL, SUSSEX.

Oyster Shell, English or  
American Graded - - 7/-  
Kent Blue Sharp Flint - 3/6

Free on Rail; Reduction 1 ton and upward  
Send 2 stamps for samples.

**F. G. BRANTON, Grit Manufacturer**  
GREENHITHE, KENT.

**Cerema**  
**MARMITE**  
**for Poultry**

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

**Better Birds  
—more Eggs**

**T**HIS preparation contains the important B. Vitamin so essential for the health of Birds. It may be given either in the form of a drink by dissolving in water, or the solution may be incorporated in the mash. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**



Wednesday, September 13th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
VI, No. 11. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

Better Birds **Cerema** more Eggs  
MARMITE  
for Poultry

THIS preparation contains the important B. Vitamin so essential for the health of Birds. It may be given either in the form of a drink by dissolving in water, or the solution may be incorporated in the mash. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyando and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony ?

Letter No. 69.

Penn Cottage,  
Nightingale Road,  
RICKMANSWORTH.  
24th May, 1922.

Dear Sir,—

I should like to let you know how very pleased I am with the White Wyandotte chicks I had from you in March.

They are the healthiest little chicks I have ever had, and for the first time in my experience I have reared the whole lot.

Yours truly,  
(Mrs.) A. M. STRINGER.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### ALL "VITA" METAL (THE LIVE TRAPPER). TRAP NEST FRONT

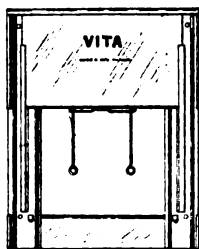


FIG. 1.

INFALLIBLE IN ACTION. VERMIN PROOF.  
THE FASTEST AND MOST SENSITIVE TRAPPER IN EXISTENCE.  
Fitted with Aluminium Drop Shutter Half as Light as a Wooden one.  
CANNOT WARP. CANNOT BREAK.  
THE NEST SHOWN READY FOR TRAPPING, THE FREE SWINGING BOLTING WIRE OPERATING A SENSITIVE RELEASE, AND ALLOWING THE BIRD TO GET WELL INTO THE NEST.

Roderick's Prov. Patent No. 17990.

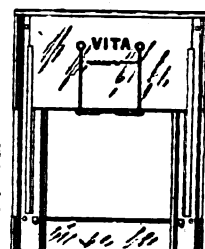


FIG. 2.

**PRICES** { Set of 4 - 14/3 Carriage paid  
Set of 8 - 28/6 "

OUTSIDE DIMENSIONS 14½ inches by 11½ inches.

Set of 12 - - - 38/6 Carriage Paid  
20 and upwards - 2/9 each "

Special Quotation for 100 and upwards will be given.

**THORP-RODERICK MFG. CO., 32, BROADWAY, BEDFORD.**

## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**

# WHITE LEGHORNS, 6-to-the-lb. Egg Strain.

○○○  
To clear House  
for Pullets

5/- EACH.



Will be accepted for 500 Genuine 1921 Hens  
that laid 2,522 eggs last week (October to  
December Records over 40).  
Six and Cockerel, 35/., carriage paid.  
April 1922 Pullets, from 10/6.

Dept. C. **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**

**NETHERBY HALL, SEDGLEY,  
STAFFS.**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

A 5-Bushel Sack containing  
about 25lb., 3s. 6d.; 3, 1s. 6d.  
2, 1s. 6d.; 6, 12s. 2 cwt. Bales  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

2, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE THE QUALITY

3in. x 4in. T.G.B.	7s. 6d.	3in. x 6in. Sawn Bds.	9s. 6d.	3in. x 3in. Battens	17s. 6d.
3in. x 5in. T.G.B.	9s. 6d.	1in. x 5in. Do.	12s. 6d.	3in. x 4in. Battens	23s. 6d.
3in. x 5in. T.G.B.	9s. 6d.	3in. x 2in. Battens	2s. 6d.	2in. x 4in. Battens	16s. 6d.
3in. x 5in. T.G.B.	11s. 6d.	1in. x 3in. Battens	4s. 6d.	3in. x 6in. Battens	40s. 6d.
3in. x 4in. T.G.B.	9s. 6d.	2in. x 1 1/2in. Battens	5s. 6d.	3in. x 4in. Weatherbds.	
1in. x 5in. T.G.B. do.	13s. 6d.	2in. x 2in. Battens	8s. 6d.		5s. 6d.
3in. x 6in. Sawn Bds.	7s. 6d.	2in. x 3in. Battens	12s. 6d.	3in. x 5in. Do.	8s. 6d.

per 100 feet. OUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station  
WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.  
We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mills. SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

Early-hatched s.c. R.I.R. Cockerels and  
Pullets from my Registered Pens (headed by  
sons of Mr. E. C. B. Boucher's World Record  
Hen No. 37, which recorded 1,045 Eggs in  
Four Years), and from other very special  
Matings of Exhibition and Utility Type.

White, Fawn & White Indian Runner, and  
Khaki-Campbell Ducks of my own strains and  
the Finest National Bentley Laying Test  
Blood, and a few Special Fawn & White  
Drakes from Dams which have recorded up  
to 360 Eggs in the year. Also a few special  
Mated Pens.

**A. HAROLD PAINE,**

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry  
Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

**The Chalet, Burgess Hill, Sussex.**

## SPECIAL LIME STONE GRIT.

NONE GENUINE WITHOUT THIS.  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.)

3s. 6d. per cwt., 68s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.





## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; 23 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

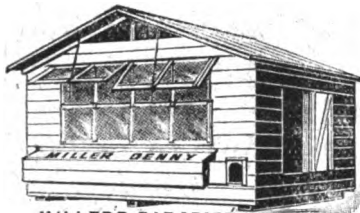
Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years

ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time. His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

— ROBERT MILLER, —  
DENNY, SCOTLAND.



THE GREEN-GLOVED MEAL PEOPLE

If you want Autumn and  
Winter Eggs

Don't let your hens 'hang'  
in their moult.

As soon as they have shed most of their old plumage give them our GROWING or FEATHERING MASH for a few weeks; it may easily make a month or two's difference to their starting to lay again.

May we send you our September Price List.

**THE STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

Govt. Surplus. **YOUR LAST OPPORTUNITY!**

— A Big Bargain in BINS —



**4/3** each } 6 to 12 4/- 24 to 50 3/9.  
complete } Immediate Despatch.

Don't miss this Amazing bargain. Cannot be repeated!

As shown, sound, unused, 20 1/2 x 17 x 17; strong wood cases, painted, hinged cover. Inside removable metal bin, hold nearly cwt. corn. Rat proof. Hold water. Boon to smallholders.

**THE LEWIS SERVICE (7), 23 Waverley Rd., Redland,**  
**BRISTOL.**

#### A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has more to make them so than

**Tom Barron**

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Cockerels. They will cost later more than times their value now. They are a proposition for those who have room to keep them up with their own chickens.

Padigree Stock Cockerels, Hens, Pullets

Profusely Illustrated Catalogue and Price List sent on request. Postage 2d.

#### OF PROGRESS.

"Poultry Foods and Feeding"

ALSO

"Chicken Rearing."

BY

**TOM NEWMAN**

Rudgwick, Sussex.

Price 6 1/2d. Each,  
Post Free.

"An Egg in Every Ounce."

**CLOVER MEAL**

FOR POULTRY.

"Klovers" brand of Clover Meal is the best Clover Meal on the market and is unequalled for egg production.

"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England.

**ROSSLYN & Co.**

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, September 13th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE PRESENT POSITION.

At the request of a Hampshire correspondent who asserts that the situation in the Poultry world is at present "very bad," we threw these columns open for the purpose of a discussion of finance. So far the response has not been great, and we are compelled to add—neither has it thrown any light on the subject.

We have a suggestion from "Ex-Airman" for another club or union. He will forgive our saying that he has not specified what are to be the objects of such a club, neither has he given any reason why the National Poultry Council, as constituted, cannot cope with this or any other situation which may arise, as well as any other body. It is representative, and as such, is recognised by the Ministry of Agriculture, and is quite capable of dealing with the purely commercial side of the question which our correspondent complains is so often side-tracked.

But what is meant by the "purely commercial side?" We may be allowed to say that the letters we have received, some of which are marked "not for publication," are all rather indefinite, and it is only by the occurrence of such phrases as "driven out of paying existence by foreign competition," and "control markets for British Poultrymen," that we are able to arrive at what is meant.

Briefly, then, it is the foreign competition which is the bug-bear, to this alone our readers attribute the low prices we are receiving for eggs at the present time.

Although it is readily admitted that this has been one of the factors in low prices, we still contend that it has only been a secondary one, and that the

greater, have been the general trade depression and the fall in the relative value of other commodities.

The importation of eggs into this country in 1920 was 7,070,508 great hundreds, in 1921 it was 10,538,412 great hundreds, or about half the total imported in 1913. We may confidently expect that this year's imports will greatly exceed those of 1921.

Apparently there are many poultry-keepers who believe that the salvation of the industry is to be effected by legislation. It will be safer to rely on individual and collective effort. We shall be in a bad state, indeed, when we ask to be spoon-fed by the Government. The suggestion has been made that Foreign eggs should be taxed. Even assuming that this were desirable, which is by no means certain, we ask your readers, is it practical politics? and leave it at that.

The Marking of Foreign Eggs which is demanded by the vast majority of those engaged in the industry, there is good reason to believe will soon be an accomplished fact, although we are not disposed to prophecy within what period.

The importation of eggs, then, will, we may assume, be greater this year than last, and will increase with each succeeding year until it approximates to that of pre-war days.

Putting aside the question of legislation, we are confronted with the problem as to how we are to meet this competition effectively.

There are two facts before us. The foreigner has studied our markets. He has received every encouragement, advice and information from the importer. He has followed this advice implicitly, with the result that the majority of the wholesale egg merchants and distributors will buy foreign eggs in preference to the home produce. This fact has been stated before, but it cannot be too often emphasised. It is hardly realised what an enormous amount of mischief is done to the English egg trade by want of organisation, and the careless, and one might add, the unscrupulous manner in which much of the marketing is done. The egg merchant is driven in self-defence to the foreigner because he is dissatisfied with the home product, and he has too often good reason for being so.

That is an unpalatable truth, but as we have been accused of disguising facts, it will be better to publish this, and give a concrete illustration. A large firm in London endeavoured to obtain big supplies of new-laid eggs from the west of England. After the second consignment they had to stop because the percentage of bad eggs was so high. This is not an isolated example, there are plenty of others. Is it any wonder under these circumstances that the importation of foreign eggs increases each year?; until we organise and evolve a better system of grading, collecting and marketing, we shall be beaten in our own markets.

In our issue of August 29th Mr. Frank Anchiffe wrote: "With the possible exception of 'Marketing,' I am not aware that the foreigner is even our equal in

the cult of breeding, rearing, and feeding for egg production." Just so; he is probably not so efficient as we are in these respects, but he does market his produce in a better condition. He caters for the market, makes up what he loses in one respect by co-operation and efficiency in the other, while we dissipate our greater efficiency in other respects by bad marketing. It is not suggested that egg-farmers or poultry-keepers in general are responsible for the stale eggs which are marketed; indeed, there has been a marked improvement in recent years, but their efforts are constantly thwarted by dealers, higglers, and others, who collect eggs from all sources, and sell them as English new-laid. Thus our reputation suffers in comparison with that of the foreigner, who has the additional advantage of being able to place his eggs on our markets at a lower rate than we can. This is partly due to the fact that he works on co-operative lines, and so is able to send in bulk, and partly to the fact that our English railway companies do not care to carry eggs, at least they do not encourage it. We believe we are correct in saying that it costs less to place the Danish egg on the English market than it does the home product.

We quote the following from "The Agricultural Report," which is prepared and edited by the Ministry of Agriculture and Fisheries. It refers to horticulture, but is equally applicable to our industry:—"At all events, it is well for home growers to know the value placed upon the English market by producers abroad, and for them to be aware of the careful plans laid to exploit it. They may then themselves review the situation with the object of discovering whether all that might be done is being done to give home produce its fair chance on home markets."

In fact the foreigner has done what we have neglected to do—he has studied our markets; he has noted there is a preference for brown eggs, and we have Dutch "all brown," which fetch a higher price than the home product. He has graded and packed carefully, and he has won the confidence of the egg merchant, and this we have failed so far to do. If we are to beat the foreigner, we must concentrate on the marketing problem, and win the confidence of egg merchant and distributor. It is useless to talk of control of markets, till we can beat the foreigner at his own game.

#### THE NATIONAL POULTRY INSTITUTE— GENEROUS OFFERS.

Mr. Lester Spurgeon has very kindly offered ten yearling White Leghorn hens and a pedigree cockerel, to be sold for the benefit of the National Poultry Institute. Anyone requiring a breeding pen of White Leghorns might do well to consider these, and we shall be pleased to receive offers.

Mrs. Hunter has offered a pen of Wyandottes, consisting of five hens, and a male which she used in her own pens last year, and which has bred some remarkably good pullets. Mrs. Hunter has been very successful as a breeder of Wyandottes, and possesses a remarkably fine strain. The fund for the Institute is not making the progress which we who know how necessary it is for the future welfare of the Industry could wish. Readers of "Eggs" and members of

the S.P.B.A. have contributed generously, but as Edward Brown points out, "Out of every hundred persons, to whom the Poultry Institute is of supreme importance, if they but knew it, more than 98 are not yet effectives." It is the difficulty of getting in personal touch with those who have not contributed which is handicapping us. Collecting cards have been issued, and if any of our readers or members would like to collect subscriptions from poultry keepers with whom they are in touch, we shall be pleased to send them cards.

In reply to many enquiries, the address of Mr. J. Smith, the Manager of the Middlesex Laying Competition, is Hearne House P.F., Hayes, Middlesex.

## DIPHTHERIC ROUP.

By C. S. ROSCOE.

In your issue of the 23rd August you touch upon the subject of Diphtheric Roup, but after a line or so you refer to it as Roup. I do not wish to be pedantic, but is it not a fact that the two diseases are entirely and totally different? If I am wrong you will correct me, but I have always understood that in the case of Roup the system is scrofulous, which is the milder form and the cold that develops with it makes the trouble apparent. (Our Correspondent is quite right, it was carelessness on our part to refer to it as Diphtheric Roup and then as Roup.—Ed.) By scrofulous I mean that there is a disturbed condition of nutrition, characterised by the inflamed condition in the various tissues of the body. The tissues most frequently affected are the lymphatic glands, joints, bones and skin and mucous membranes. The average poultry book never mentions any of the symptoms except those to be seen on the head.

The difference between ordinary cold and roup is very easy to determine, by anyone who uses their powers of observation, though the symptoms are in some respects the same. But when it is merely a cold, the running of the eyes and nostrils is not at all offensive, whereas it is strongly so in the case of Roup caused by scrofula, the breath being most repulsive. This fact as well as the swelling of the face may be taken at once to determine when it is Roup.

The cause may generally be sought for in bad feeding, housing or ventilation, which has changed the blood with scrofulous matter, and the outward symptoms are induced by cold. The treatment must be dual, to cure the cold and to remove the scrofula from the blood, and this is where so many persons go wrong. They cure the cold and think they have cured the Roup.

The outward symptoms in Diphtheric Roup are not nearly so apparent at first sight, because less prominent; still the bird is noticed to be dull and lethargic. Unless checked the disease runs its course in a few hours and the bird dies. Sometimes it is not known that Diphtheric Roup is present until several deaths

have taken place. Its presence is easily distinguished by the skin-like substance formed over the throat.

Then there is another form which I believe is often taken as being Diphtheric Roup, but which I am certain is a form of ulcerated throat or septic throat, the result of a cold, which is easily cured.

The cure for, shall I call it Roup ordinaire? is first to cure the cold by keeping the bird in a warm, well-ventilated but draughtless place and give it 2 grain tablets of Sulphate of Quinine. Also clear the mouth, nostrils and eyes from the mucus which accumulates there, and which may suffocate the bird if not removed. Personally I have had little trouble with colds among the birds for years, because I disinfect all the water with Milton, but I have often been able to help friends who have poultry suffering from the trouble. I remove as much of the accumulated mucus as I can from the cleft in the bird's palate with a match, then with a small syringe which has a long thin glass nozzle. I syringe out the nostrils with a 20 per cent. Solution of Milton used with warm water, and if the bird has an ulcerated throat I swab it out with neat Milton. As a medicine which will help the bird to eradicate the scrofula from its system, I give pills made of Charcoal 10 parts, dried Sulphate of Iron 1 part, and Capsicum 1 part, made up with butter and given twice a day.

In the case of Diphtheric Roup I believe that unless one is ready to spend a good deal of time on the bird it is better to kill and burn it, otherwise I have found frequent applications of warm, neat Milton to the throat to be wonderfully effective. I have used other remedies such as pure Carbolic-Acid, Izal, Dakin's Solution, but this generally means kill or cure, for a touch of it on the wind pipe and the bird goes under, due as much as anything to the fact that some of these chemicals cause coagulation of the saliva which has nearly the same effect as the Diphtheric membrane in choking the bird.

I believe Mr. Brain experimented with Di-Chlorimine T., but as this is not readily obtainable I should certainly recommend anyone trying Milton who has birds suffering from either Roup or Dyphtheric Roup, and before touching any other birds afterwards, rub their hands with a neat Solution of Milton, it does not hurt them and the smell is not so clinging as some of the other disinfectants.

I am afraid I have written far more than I had intended to do, but being most interested in Poultry and their ailments I have spent a good deal of time experimenting with different remedies and have found Dakin's Solution and Milton remarkably effective, and if I had time and the Scientific knowledge I should like to carry out some more experimental work with the disinfectants, for I am sure they have a great future before them in the Poultry World, especially in connection with Bacillary White Diarrhoea and Coccidiosis.

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

## INCUBATOR CONSTRUCTION

Paper Read at Harper-Adams' Conference, August, 1922.

We are all of us acquainted with the poor results obtained from incubators, but I at any rate did not realise several of the probable causes until I had made an incubator and tested the results by thermometer readings at many points.

The ideal I have been aiming at is a machine which has an even temperature all over the egg drawer, and is unaffected by changes in outside temperature. In pursuit of that ideal I have made seven machines of different types, some heated with hot air, some with hot water, some with pipes, some with tanks, some heated from above and some from below, and tested them with thermometers, and I have tested machines now in commerce in a similar way and compared results. Even temperature I believe to be the most important quality in an incubator. It is true that eggs will stand considerable variations up and down for short periods without apparent harm. Under the hen they are exposed to material differences, but never for long, for she frequently changes the position of the eggs. If the position of the eggs in an incubator could be changed every hour or so day and night the bad results of uneven heating would be lessened. In practice this cannot be done, so that many eggs are killed and many chicks which hatch are weakened by exposure to excessive heat or cold for undue periods. In fact, the chicks which hatch in an irregularly heated incubator are not survivors of the fittest but of the luckiest—they are largely those which have not been killed by being left too long in an unsuitable temperature. Given even temperature, I see no reason why the incubator should not equal or even beat the hen as a hatcher.

The difficulty in obtaining even heating is largely due to the fact that neither hot air nor hot water will readily diffuse in colder air and colder water—they will not readily mix, and, unless violently agitated, tend to stratify into layers of hot above and cold below, and in the process to eddy round in streaks of hot and cold in what are called convection currents. Cold falls and hot rises, but they do not rise and fall straight up and down but swirl round and the greater the differences in temperature the more marked are the currents created.

Another trouble arises from air readily losing its heat to other substances, hence in imperfectly insulated incubators, and few are really well insulated, the air in contact with the sides and roof is rapidly chilled.

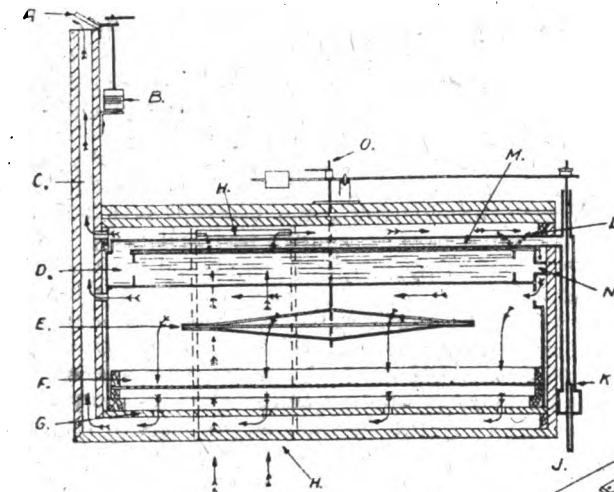
In all the machines with which I am acquainted the makers use these convection currents to get heat down from above the eggs. They try to control them, and all honour to them for their ingenuity in effecting as much control as they get, for convection currents are not easy to control or to predict. I found in one machine I made that shifting a hot pipe  $\frac{1}{2}$ -in. changed one corner from the hottest to the coolest spot in the



machine. Slight inaccuracies of manufacture may therefore cause marked differences in the performances of machines of the same make, and this is particularly to be expected in hot-air machines, for in these incoming air is usually well over 200 deg. F. at the point of entry, and they are fitted with baffles and deflectors of various designs to distribute this hot air as evenly as possible. Small defects in these fittings may result in hot draughts in the egg drawer, fatal to incubation at that point.

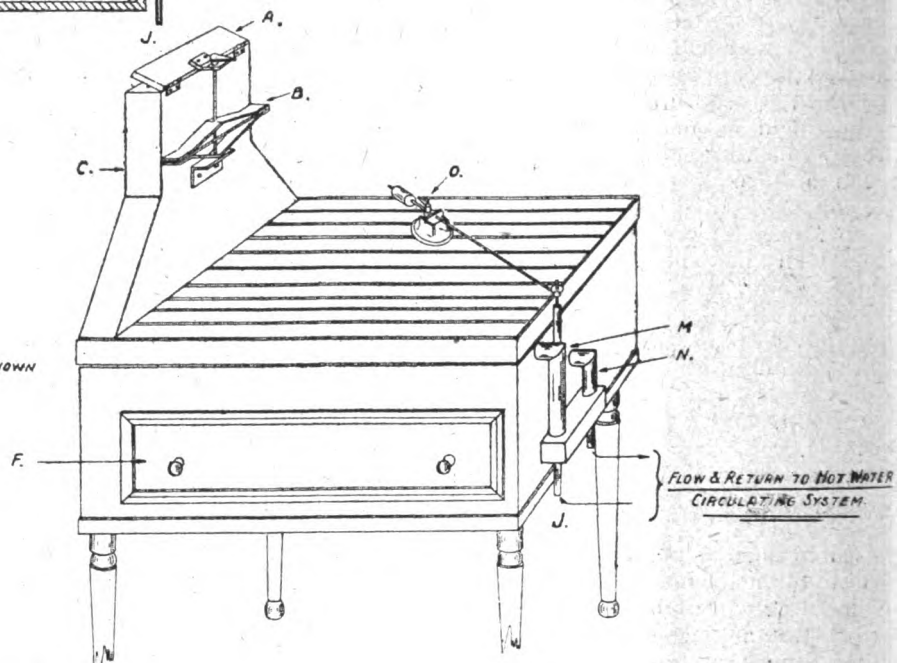
In hot-air machines, owing to the great heat of the incoming air and its quick cooling against the

the radiating surface the less is the heat required, the less violent are the convection currents, but all forms with which I am acquainted cold air admitted from outside into the body of the machine above the eggs in order to secure the necessary ventilation with the result that cold draughts are set up. The heating, too, of these machines tends to be irregular, because tanks heated in the usual way with the lamp flue passing through them are hotter on the line of the flue and close up to its point of entry than at the sides, and in pipe-heated machines there are zones of greater heat under the run of the pipes.



- A. AIR SHUTTER
- B. THERMOSTAT (EXTERIOR)
- C. CHIMNEY
- D. TANK
- E. THERMOSTAT (INTERIOR)
- F. EGG DRAWER
- G. FALSE BOTTOM
- H. COLD AIR INLET AT BACK
- J. HOT WATER INLET
- K. HOT WATER REGULATOR VALVE
- L. MOISTURE THROUGH, WATER SUPPLY NOT SHOWN
- M. HOT FLOW PIPE TO TANK
- N. RETURN PIPE FROM TANK
- O. THERMOSTAT REGULATOR

AIR FLOW ARROWS SHOWN THUS →



roof and sides, very rapid convection currents are set up and these carry downwards to the eggs the hot air more or less diffused in colder air by the screens through which it passes. In consequence, in hot-air machines zones of excessive heat are frequently found, though they have advantage over the hot-water type in usually showing a smaller drop in temperature between the top and bottom of the egg.

In hot-water machines, whether heated by tanks or pipes, the source of heat is considerably lower in temperature than in hot-air machines, and the larger

In types in which the heat is regulated wholly or in part by openings in the top of the machine, variations of air flowing through the machine are caused by variations in the outside temperature with consequent ill-effects on the regularity of the temperature inside and on the evaporation from the eggs.

Variation in outside temperature more or less affects all machines as at present constructed by causing changes in the pace of the air flow and in the case of machines, where the temperature at the source of heat has to be carefully regulated so as not to get

cessive heat, a sharp rise or fall of outside temperature may cause disastrous rise or fall inside.

To sum up, the main defects of the incubators in common use seem to be hot spots, cold draughts, variations in the volume and pace of the air flow and sensitiveness to variations in outside temperature.

To remedy these defects what seems to be required is to heat a relatively large body of air evenly, to reduce convection currents to a minimum by securing that the air above is hotter than the air below, and that there is no great difference in air temperature at any given level, to effect ventilation by means of an induced flow of this evenly warmed air, and to provide a means of controlling the amount of air passed through in accordance with the alterations in outside temperature.

To get a large body of evenly warmed air a large evenly heated surface is required, and this can be obtained sufficiently nearly by a tank through which water is circulated through baffles arranged to distribute it evenly across the width of the tank.

There is some loss of heat from the water in its passage across the tank, but with a substantial volume of water and a fairly rapid flow, this can be kept within 1 deg. F.

The water should enter at approximately the temperature at which the tank has to be kept, and this in the case of a single machine can be effected by regulating the heat of the water in a heater by any of the usual methods, but, even in a single machine, is preferably done by admitting a small quantity of much hotter water through a valve, controlled from inside the machine, into a thermo-syphon system connected with the tank outside the machine, where the hotter water can be thoroughly diffused in the bulk of the flowing water before entering the tank.

An advantage of this method is that one source of trouble is eliminated, for the attendant has not to consider whether his lamp flame or his fire is too fierce, all he has to do is to see it is burning well; if his water boils it will not affect the inside temperature.

A further advantage is that more than one machine can be joined up to the one source of heat. A properly designed boiler with a good lamp will serve at least two machines, and any trustworthy hot-water supply can be used to run a series of machines.

Air circulation is obtained by a chimney the full width of the incubator and about  $\frac{1}{2}$ -in. broad rising from the floor of the incubator to about a foot above the top, where it is gradually narrowed to about 8 in. Into the bottom of the chimney air can freely pass from the inside of the incubator but not from outside.

The tank fills the whole top except on the side furthest from the chimney, where a  $\frac{1}{2}$ -in. gap is left through which air can pass to the space below the tank.

The sides are lined inside with metal connected with the tank so as to carry the heat of the tank downwards and minimise chilling of air on the walls.

Air is admitted from the outside to the top of the tank up a channel opening near the bottom of the

machine. Over the tank a row of holes of an effective area of about  $\frac{1}{2}$  in. of the air channel are drilled into the chimney. A free passage for air is provided through the  $\frac{1}{2}$ -in. gap between the tank and the side to the body of the incubator, and holes similar to those above are drilled through to the chimney, close below the tank to give a cross draught.

About 5 in. below the tank is the egg drawer. Close below the egg drawer and about 1 in. above the floor is a plate or a false bottom pierced with 16 holes, having a total effective area of half that of the air channel. From the space thus formed there is a free passage for air into the bottom of the chimney.

This arrangement works thus:—When the tank is heated the air immediately above and below it is heated and having a passage into the chimney flows up it, starting a draught which draws air up the inlet channel from outside and from the bottom of the chimney. Cold air is thus drawn over the top of the tank, its hottest surface, where it is warmed, then down to the space below the tank where part flows across, preventing any stagnant air under the tank, and the remainder is drawn evenly downwards through the spaced holes in the false bottom and escapes up through the chimney.

The result is even heating of the egg drawer. A test with thermometers shows an extreme variation between any two points just over the top of the eggs of less than 1 deg. F., and a difference of only about 6 deg. F. between the top and bottom of the eggs.

The machine heats up quickly, and after it has attained its heat and been regulated to a steady temperature will get back to its proper heat after being opened inside a quarter of an hour.

For the control of temperature a metal thermostat is used as being more reliable than a capsule and unaffected by barometric changes. In use the temperature is held steady to any required height.

The quantity of air flowing through the machine can be regulated by a shutter on either the inlet or outlet, and this can be further controlled by a thermostat, outside which will vary the opening with the rise and fall of the outside temperature.

The quantity of air passing downwards through the eggs can be further varied by a sliding shutter on the false bottom—opening or closing the holes.

Moisture is provided by a V-shaped trough on the top of the tank fed from a water receptacle by a pipe, the height of which from the bottom of the trough can be varied, so that the area of water exposed to evaporation inside can be altered as required.

With a machine built on these lines the operator has complete control of all the known factors affecting incubation, heat, evaporation, air flow and moisture, and at the same time when the regulators have been set the call on the personal skill of the operator is largely eliminated.

The construction described is provisionally protected.

## Correspondence.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—I thought the correspondence of a "Hampshire Correspondent" rather uncalled for, or, perhaps I should say that portion of it relating to "Eggs." I do not see what Poultry papers can do for the small man, because there are in rearing and keeping layers so many things that count and differ (like human nature) with each individual keeping poultry; if one were to give minute details of expenses and returns of one's farm, he might say it was faked, or suggest so, and I see no help, then, because it is like the old saying one sometimes hears, i.e., one man would get a living where another man would starve, because you might tell him everything you could, and then even if he got as many eggs, he might lose a considerable amount every year by his marketing methods. I am only a small man, with about 900 layers, but I would not keep them a single day if they did not pay, and pay very well at the present-day prices, and my rail freightage must be much heavier than "Hampshires," but talk of this nature is hardly helpful. "Experience," like everything else in this world, I have found has to be bought one way or the other, and there is often a bitter draught in the learning (I have found it so) before we have sufficient knowledge to enjoy the sweets, and I fail to see that books can give us all we want to know. I think "Eggs" is trying to cope with the situation, and it remains with the individual to get as many eggs when prices are highest, at the lowest feeding cost, and market them to the person who will pay most for them, and "hope on."

A LANDS END CORRESPONDENT.

### THE PRESENT POSITION—EGG PRICES.

To the Editor of "Eggs."

Dear Mr. Newman,—The minds of all thinking commercial egg-men and poultry-breeders are just now somewhat exercised over the low prices market eggs are fetching owing to the heavy consignments poured into this country without any distinctive mark save the vague word "imported" to guide the buying public.

We are trying to raise the amount necessary to equip a Poultry Institute, and rightly so. But what about the industry itself. It seems to me that among all the matters occupying the minds and the attention of those responsible for the running of our great Societies like the S.P.B.A. and the N.U.P.S. and also those constituting our Poultry Parliament, the PURELY COMMERCIAL side of the question gets side-tracked too often. Surely the very first and most vital question of all is the COMMERCIAL.

STABILITY of our FAST GROWING INDUSTRY AS A WHOLE. What use will all these societies our Poultry be if we allow our Industry to be driven out of paying existence by foreign competition? National Farmer is just now formulating plans to protect milk producers against the grasping methods of the retailers, and purpose fixing MINIMUM pricing prices for milk for the whole kingdom. This is sound business and requires no comment from us as its worth to their industry is so apparent. It would enable anyone contemplating dairy-farming to easily compute his costings and profits so that he knows once where he stands. I am afraid poultry farmers cannot do this at present. What I wish to suggest is this: That the leading men in our Poultry Parliament, the S.P.B.A. and the N.U.P.S., meet in a round table conference and endeavour to draw up a common sense basis upon which to form an ALL BRITISH Poultry Farmers' Union—a body which could embrace for a nominal yearly subscription all those interested in the industry, whether egg-men, breeders or fanciers, because, after all, we are, or should be, inter-dependent one upon the other. If we can compel the attention of Parliament to our needs as an industry, we must constitute ourselves into a sufficiently powerful body to either compel attention to our needs or to control markets for British poultrymen. I hold a strong brief for the many ex-Service men (I am one among many) who are endeavouring to get a living (not a fortune) by poultry keeping, and we have sunk much capital, brains, and labour on our plants. I should be delighted to become a member of such a body as the Union I suggest, and I am sure everyone interested in Poultry commercially would want no second asking to join when they had the advantages put properly before them.

If we don't mind, our market will be taken from us, and we shall have nothing but the cry of "Again too late" as our consolation for commercial ruin. I don't think our poultry-men have dealt with "first things first." The first thing is surely to secure all poultry-men—given the necessary ability and working will—a CERTAIN living and not a problematical one. I trust that this letter may induce others of my comrades to rally to the banner when raised, and that they also will write you and freely criticise what I have written. Let "Union" and "Stability" be our watchwords. British hens will then have no foreign rivals to fear, and England will be just one step nearer being a "Land fit for heroes to live in."

Yours faithfully,

EX-AIRMAN.

### VENTILATION OF HOUSES.

To the Editor of "Eggs."

Dear Sir,—In the article entitled "The Ventilation of Fowl Houses" in your issue of August 30th, Lt. Col. Hardy writes, in referring to the best means of inducing fresh air to come into the house, "where are we to put our inlets? Certainly not under the eaves, because here we shall have cold air descending on the backs of the birds while perching."

Perhaps your readers may like to hear of the latest American method, the best I have ever seen

# HOW TO INCREASE YOUR POULTRY PROFITS

Lay a Firm Foundation by securing Healthy Recorded Cockerels.

**NOW is the time to BUY CHEAP.**

We have for disposal a limited number of Feb., March and April Hatched Leghorn Cockerels from our Special Cockerel Breeding Pen that contained the following Birds :

Bird No.	Pullet Record.		PRICE :—
62	248	Mated to Cockerel Dam 281 Sire's Dam 284	<b>£1 1s. Od.</b> Each. Carriage Paid.
65	240		
67	242		
123	247		
142	238		
144	242		
146	239		
148	237		

All the above Birds have been reared and trapnested at "Lindhurst Poultry Farm," therefore we guarantee *the records authentic.*

Telegrams:— . . . . .  
 . . . Utility, . . . . .  
 . . . . . Wilmslow



Telephone:— . . . . .  
 . . . 162 Wilmslow

*Full Particulars sent with each Bird.*

**Lindhurst  
Poultry Farm**

Moor Lane,  
WILMSLOW,  
CHESHIRE.

M.S.P.B.A.

N.U.P.S.

*Inspection  
Invited.*



# COMPARE OUR PRICES ALSO OUR SAMPLES

## WHICH ARE FORWARDED FREE ON APPLICATION.

	Cwt. s. d.		cwt. s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa)	18 0	"Moregg" Dry Mash	17 0
"Moregg" Laying Meal (no Alfalfa)	17 0	Poultry Mixture	17 0
Pure Sussex Ground Oats	20 0	Poultry Oats (clipped)	17 0
Pure Alfalfa Meal	22 0	Kibbled Maize (screened)	14 0
Pure Clover Meal (not Cob or Chaff Dust)	18 0	"Rearall" 1st Chick Feed	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt)	21 0	"Thryvon" 2nd Chick Feed	22 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.)	23 0	"Matua" Chicken Mixture	20 0
Carriage Paid.		Chick Mash	18 0
		Carriage Paid.	

*Special Discounts on all the above if orders are received through the S.P.B.A.*

NOTE.—We regret that owing to the short crop of GREEN ALFALFA we have been compelled to raise the price 2s. 0d. per cwt.

## E. DIXON & SONS, ST. ALBANS, HERTS.

### NOTE NEW PRICES.

### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt. s. d.
Dried Skimmed Milk	24 0
Sussex Ground Oats	16 0
Maize Meal	11 0
Maize Gluten Feed	12 0
Pea Meal	16 0
Bean Meal	16 0
Meat Meal (Fine Ground)	22 6
Fish Meal (Best White)	23 6
Biscuit Meal (Fine)	22 6
Clover Meal	18 0
Broad Bran	12 0
Middlings (Best Fine White)	14 0
Middlings (English)	12 0
Feed Wheat (Best English)	15 6
Feed Oats (Best English)	15 0
Kibbled Maize (Sifted)	12 0
Flint Grit	5 0
Limestone Grit	5 6
Oyster Shell	8 0
Crackle Shell	6 6
Roll'd Wheat (for Chicks)	15 0
Dried Yeast	20 0
Pinhead Oatmeal	26 0
Whole Oat Groats	26 0
Broken Rice	16 0
*No. 1 Chick Feed	22 0
Mash for Laying Hens	18 0

(Both the latter are Mr. Tom Newman's Recipes.)  
FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX.

## GREAT BARGAIN!



Only **£5** Free on Rail.

This house is 9ft. 0in. x 8ft. 0in. x 8ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected tin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-; if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**  
Phone: 521 SHIPLEY.

### REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS.

### GUARANTEED.

Manufactured in an old-established Sussex Mill by original Millstone process.

	s. d.
7lb. Bags	2 3
12lb. Bags	3 9
28lb. Bags	7 6
56lb. Bags	12 9

### PRICES PER CWT.

	s. d.
1 cwt.	25 0
3 cwt.	24 0
6 cwt.	23 6

Carriage Paid nearest Station in England and Wales.

Bags included. Cash with order or Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.

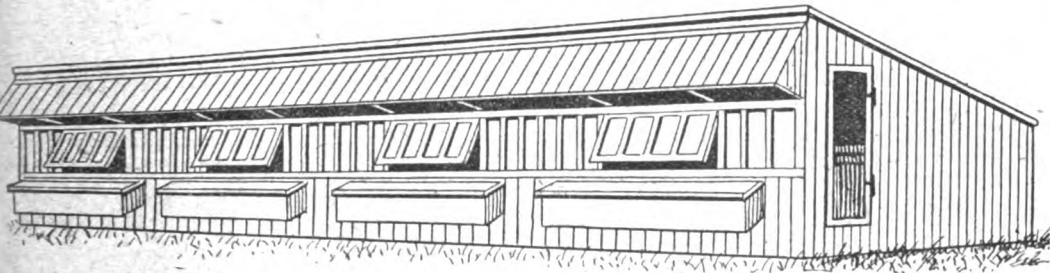
# WHEN YOU LOOK AROUND AND SEE

The Rubbish and undersized Houses now put on the Market. it is no wonder that a large number are now placing their orders with

## C. A. SYDENHAM HANNAFORD, M.S.P.B.A.

The South of England Poultry Yards and Appliance Works,

HAMWORTHY JUNCTION. DORSET, ENGLAND.



No. 1.	6ft. long, 10ft. wide	£14 5 0
2.	10ft. long, 10ft. wide	£19 4 0
3.	16ft. long, 10ft. wide	£27 1 6
4.	20ft. long, 16ft. wide	£42 5 6
5.	30ft. long, 16ft. wide	£62 5 6
6.	40ft. long, 16ft. wide	£82 3 6

FLOOR AND SLEEPERS.

No. 1.	... ..	£3 6 6
2.	... ..	£4 0 3
3.	... ..	£7 12 0
4.	... ..	£14 9 9
5.	... ..	£20 3 0
6.	... ..	£26 2 6

### THE "POPULAR" SEMI OR INTENSIVE HOUSE.

PENETRATING, the best preservative, IS INCLUDED.  
SLEEPERS, which are penetrated, ARE INCLUDED.  
WATER FOUNTAINS, best galvanised iron, ARE INCLUDED.  
DRY MASH HOPPERS, also best made, ARE INCLUDED.

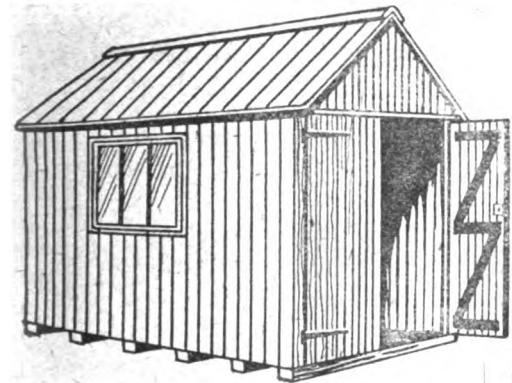
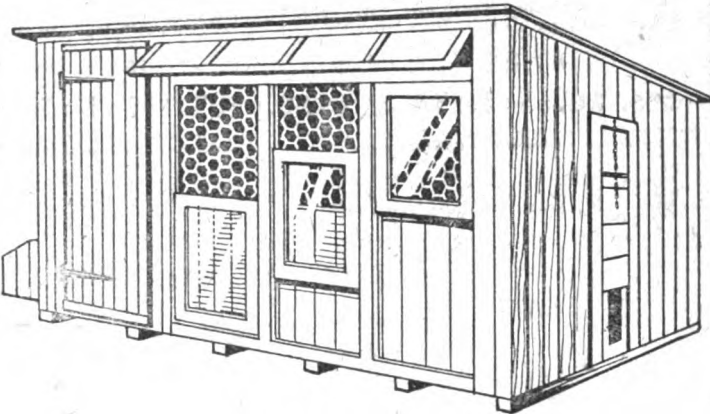
BEST 2-PLY FELT ON ROOF, THIS IS INCLUDED.  
DROPPING BOARDS, PERCHES, BOLTS, LOCKS, LATCHES, GLASS TWO WIRE DOORS to No. 3 Size, and up, IN ADDITION TO WOODEN ONES. All Prices. Less 5 per cent. to M.S.P.B.A. CARRIAGE PAID.

### The "FAVOURITE" House.

These houses are so constructed that you can have a comfortable house and scratching room combined, fitted with dropping board and perch, floor, felted roof and nest boxes complete. Glass Shutters and Hood. } matching on stout framing.

No. 1.	6ft. long, 4ft. wide, 5½ft. high	£7 5 0
2.	6ft. long, 5ft. wide, 5½ft. high	£8 15 6
3.	7½ft. long, 5ft. wide, 5½ft. high	£9 15 6
4.	8ft. long, 5ft. wide, 6ft. high	£10 13 0
5.	9ft. long, 6ft. wide, 6ft. high	£12 7 6
6.	10ft. long, 6ft. wide, 6ft. high	£13 7 6
7.	12ft. long, 6ft. wide, 6ft. high	£13 19 6

CARRIAGE PAID.



5 per cent. Extra for Carriage Beyond the FIFTH OF FORTH and to the CHANNEL ISLANDS.

**WARNING.**  
ONE valuable Pullet lost in a badly constructed house pays the difference between a bad and good house.

### THE "POULTRYMAN'S" GARAGE.

Made in 7 Sizes, all of ½ wood, on stout framing, the floor being made of best lin. matching.

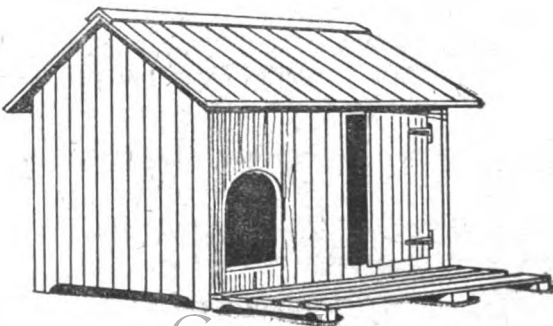
No.	Size	Felted Roof. Penetrated.
No. 1.	11½ft. long, 7ft. wide, 6ft. eaves, 8½ft. ridge	£15 14 0 16/6 10/6
2.	13½ft. long, 8ft. wide, 6½ft. eaves, 9ft. ridge	£19 6 0 21/- 12/-
3.	15ft. long, 9ft. wide, 7ft. eaves, 9½ft. ridge	£22 10 6 27/6 13/6
4.	17ft. long, 9½ft. wide, 7½ft. eaves, 10ft. ridge	£26 7 0 32/6 15/-
5.	18½ft. long, 10ft. wide, 8ft. eaves, 11ft. ridge	£30 2 6 38/6 16/6
6.	21ft. long, 10ft. wide, 8ft. eaves, 11ft. ridge	£33 5 0 43/- 18/-
7.	22½ft. long, 12ft. wide, 8½ft. eaves, 11½ft. ridge	£37 10 0 50/6 19/6

ALL CARRIAGE PAID.

### The "Poultryman's" Kennel.

2ft. 6in. long, 18in. wide, 2½ft. high, for Terriers, £1 5s. 6d.
3ft. 6in. long, 2ft. 3in. wide, 3ft. 6in. high, Retrievers, etc., £1 19s. 6d.
4ft. 6in. long, 2ft. 9in. wide, 4ft. high, St. Bernards, etc., £2 12s. 6d.

CARRIAGE PAID.



ALL GOODS SUBJECT TO 5 PER CENT. DISCOUNT TO M.S.P.B.A.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of L.B.  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM, LONDON, N.15.

### 1921 PULLETS, 6/- each.

White Leghorns and S.c. Anconas. Proved 12 Birds, and will make excellent breeders for next season. Carriage Paid on Six.

#### STOCK COCKERELS.

White and Black Leghorns and S.c. Anconas. April hatched from 12 stock 7/6 and 10/6 each. Carriage Paid.

All Birds sent on approval against remittance or deposit.

Crates to be Returned.

MARKHAM, SONS and ALLOTT, S. I.P.A.  
QUENIBOROUGH, Near LEICESTER.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

Supplied on Application **FREE OF CHARGE** by the Manufacturers of

## FLUID **IZAL** POWDER

### DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

#### IZAL FLUID.

8/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

#### IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Bag.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

so far, and which I have used in France with perfect satisfaction.

The fresh air **does** come in **under the eaves** at the back of the house, **but it does not descend on the backs of the birds**. Why? Because it is screened off by boarding which runs up at the back of the dropping boards and over the fowls' heads to within a level of the front of the dropping boards. This boarding is nailed to the rafters, so that the amount of air coming in depends on the thickness of the rafters.

Thus the hot nauseous gases rise and are carried away under the roof and out by the front windows or wire netting. And this is not the only means of ventilation, for the space at the back of the dropping boards between the boarding above-mentioned and the wall draws up the gases accumulating under the dropping boards and carries them out over-head. Thus a good circulation of fresh air is created without the birds being submitted to any draught whatever.

The little "ventilators" can be regulated by hinged panels according to atmospheric conditions. A wire netting must be stretched across the inlet to prevent animals getting in.

Yours truly, M.M.

#### THE NATIONAL POULTRY INSTITUTE.

To the Editor of "Eggs."

Sir,—In reply to the letter in your issue of the 23rd inst. from Lt.-Col. Hardy, permit me to point out that at the time named by him, as announced at Leamington, Collecting Cards were in the Press. These were issued immediately afterwards, and the fact was mentioned in various papers as well as intimation sent to societies. Nearly one thousand have been sent out, but up to the present with very little response.

For obvious reasons these cannot be issued broadcast, and may only be placed in the hands of responsible persons. To that end it is deemed better to work through the various societies, or to receive requests for Cards so that a register may be kept.

I shall, therefore, be glad to hear from anyone who wishes to receive a Collecting Card, preferably through the Secretary of the S.P.B.A. or any other affiliated society.

Yours faithfully,

EDWARD BROWN,  
Hon. Sec.

To the Editor of "Eggs."

Dear Sir,—The Rearing Problem this year has been more acute than usual owing partly to the abnormal weather, and to the larger number of chicks. The root of a lot of the trouble lies in the breeding stock. Where the breeders themselves have been bad to rear their chicks will be found to be weakly, and lacking in stamina. A big percentage of infertile eggs and dead-in-shells is always the forerunner of weakly chicks. From observation one can hardly expect anything but a number of clears where big breeding pens are run with a dozen or more male birds. Much better average hatches result when the breeding stock are penned eight or ten females to one cockerel. Now,

as chickens are formed in and of the egg, and the yolk comprises their whole food for at least 24 to 36 hours after hatching, it follows that the nutrient value of the egg is most important. Until some specially rich food is adopted to poultry feeding containing vitamins and mineral salts in abundance, the ordinary hen can only pass on to her eggs a certain amount of these necessities, and if her limited supply is to be spread out over sixty or a hundred eggs during the hatching season the chickens cannot be as strong as those of the farmyard mongrel who has laid perhaps thirty eggs during the same period. We do not want to return to mongrels, so the only way is to retard the laying of our breeders by feeding only non-forcing foods, and not expect our super-winter layers to produce healthy chicks following immediately on a long batch of eggs. Incubator-hatched chicks tend to be more delicate than those hatched under hens, and those reared in large numbers to those in batches of 60 or 100. Given healthy chicks much trouble is caused by chills, either on transference to the brooder or insufficient heat in the brooder. From the small poultry keeper's point of view, who sends for day-olds, most of his trouble is caused by badly packed chicks, some of the most reputable breeders are careless of how and when their chicks are packed. Many are packed before being dry, and on a cold day such chickens receive such a chill that they quickly succumb. As to the B.W.D. which has caused such a scare this year, in spite of the fact that it is said to be inherited from the parent stock, I think much could be traced to the above causes, especially where chickens from very high-fecund parents have been subjected to a draught or chill.

Yours faithfully,

B. BUTTERWORTH.

#### THE PRESENT POSITION.

To the Editor of "Eggs."

Sir,—With reference to your Hampshire correspondent's observations in this week's issue. I have not the slightest doubt that our journal would print an article on Poultry Finance each week if the demand existed, but what *does your correspondent desire to know?* Personally I am able, on numerous occasions, to deduct considerable financial information from "Eggs." I would invite "Hants" to peruse pages 102 and 105 in this week's issue; surely a wealth of information is present. Although "Eggs" is singled out, I should like to have seen the additional words "Or any other similar journal."

The writer does not propose to dismiss the suggestion re the Successful Poultry Farmers so lightly. Shall we assume for the moment that "Eggs" and every other Poultry Journal announced the fact that they had resolved not to make any reference to finance in *any form* in future. It would be safe to take 100 to 1 on the chances that there would be no poultry publications in three months' time. The study of finance is a most important subject in connection with the industry, and first and foremost comes a sound system of costing. This no doubt is a comparatively easy matter in the case of the back-garden and one acre man, and it is he who can show you what it cost to



produce an egg in December, 1920, and 1921. How many successful Poultry Farmers who deal in thousands of eggs can produce figures to show the cost of one egg and the value of an 18 months' old pullet. I know but a few "big men," but I have never been satisfied with their systems of accountancy, and it is such a vital point; in fact, it is intensely vital to the "big man."

The best way to get at the facts is for those who have failed and those who find their businesses declining to come forward and disclose their positions (to what extent they desire). Let them state: (1) To what causes they attribute failure or decline. (2) When the discovery was made what were. (3) The remedies adopted. (4) The results. There are numerous other "heads," but I doubt if *anyone* is prepared to come forward with reliable information on the subjects, and if "Eggs" is not provided with the subject-matter how can discussions arise and valuable advice be given in its columns to those who contemplate a pupil's course, or the successful Poultry Farmer who is still aspiring to further success

A. C. C. S.

#### THE MINORCA.

To the Editor of "Eggs."

Sir,—In answer to Capt. Whitely, the showmen have spoilt the Black Minorca. Should he go to any poultry show he will see a very ugly, weary looking bird, all comb, legs and wattles. The man in the street likes an active keen bird, and when he sees the genuine Black Minorcas he will buy them, but he seldom ever sees one. Why? Because utility breeders are like sheep, the first one bred White Leghorns and Wyandottes and the rest just followed suit.

I have bred utility Minorcas for the last twelve years, and have each year had to refuse orders. In June I sold a pen of Minorcas to a breeder near Lincoln. I heard from him the other day, he says everyone who sees them admires them, and he has already booked a number of orders for chicks and eggs next spring. Last March I shipped utility Minorcas to Natal, have just received another order from the same gentleman.

In South Africa, U.S.A., and Australia the Utility Minorca has many followers. I heard of one gentleman in California who each year bred a large number of hens which laid over 280 eggs in their first laying year.

Mr. Meekings imported a pen from Spain last Autumn, and I understand that at the end of eight months the pen average was 170 eggs.

I should like to congratulate the British Minorca Club on offering a gold medal at the forthcoming Lancashire Utility Poultry Society's Laying Competition.

I think the reason the Editor does not recommend the breed is because he knows nothing about them, not having kept the true utility birds.

Yours truly,

P. R. TURNILL.

Mr. Turnill is mistaken, we kept utility Minorcas many years before he did, but in the particular case

referred to by Capt. Whitely they would not have been suitable.—(Editor.)

#### INDIVIDUALISING THE BREEDER.

To the Editor of "Eggs."

Dear Mr. Newman,—A few observations in response to that important subject "Individualising the Breeder," which are the result of records I kept at Allerton, may be of interest to Dr. Baldwin and other readers.

I found that the hatchability percentage of the eggs from different individual birds, in an average hatch, ranged from nil to 100 per cent.; the intermediate only varying slightly with the total percentage in different hatches.

Sometimes a decided individual drop or rise would take place, indicating a change in the controlling factor, certainly not in the environment. In one case a bird which gave 100 per cent. in 1920 only gave 50 per cent. in 1921. Why was this? The bird remained apparently in the pink of condition the whole time.

It did not appear to follow that the chicks from a 100 per cent. hatchability bird were the easiest to rear; on the contrary the positions on the rearability list were quite contrary to those on the hatchability list. These experiments might be carried much further, but one has not a lot of time for such luxuries on a commercial egg farm; in this case the chief object was to find out the duds, and discontinue their use as breeders, with obvious advantage.

We might learn something from the analysis of eggs from individual birds which have been tested for the hatchability of their eggs previously. Then, again, a post-mortem of the birds themselves might be useful. The rate of production does not appear to be a controlling factor, so that may be ruled out for the present. It is the controlling factor in the individual bird that we want to find, since no matter however successfully we may feed the stock birds and incubate the eggs we will still note a marked difference in the hatchability of the eggs from individual breeders.

Yours faithfully,

CLIFFORD DE KUSEL.

#### LINSEED FOR POULTRY.

To the Editor of "Eggs."

Dear Mr. Newman.—I was interested in Mr. Larcom's letter, re linseed meal. I can heartily endorse his statement, by the condition of my birds. The plumage of one, two and three year old hens is fine. They might, in many instances, pass for pullets just starting to lay. Their records are all right, and I personally trap-nest every hen, old and young, all the time. To give three instances: One, 1920, R.I.R. bought as a year old, had a winter record of 43, and laid 212 eggs. This second year she has a winter record of 68, and to date has laid 232 eggs, with a month of her year to go. This bird is in show condition. Two January, 1921, pullets have laid to date 240 and 260 eggs, winter records of 55 and 44. One

if these laid 31 eggs in July, and made a sequence of 3 eggs, non-broody. The other went broody on the fourth of June, went into quite a bad moult; but only stopped laying for seven days, and is at present in the pink of condition and laying.

At present I have 60 hens, 39 of these last season's pullets, with egg records from 150 to 260 eggs to date, and I am getting 27 to 33 eggs per diem, though 26 of them have been and are moulting. I think only about six of the moulters are not laying. These are mostly two and three year old Leghorns. We have been having a winter instead of a summer this year. Plenty of rain, very little sun, hardly a night without frost. These birds also had dried yeast and fish meal, with cod liver oil in the proportions you recommended in their mash. For the past six weeks I have reduced the fish meal to practically nil, and replaced with dried butter milk. The hens are consuming double the amount of mash, eggs have increased in size, with beautiful shells, and I think the number speaks for itself. I have also noticed the moulting hens do not seem in the least mopy or depressed, but are always on the scratch and hunt for food as lively as ever.

Yours truly,

Killearn.

(Miss) A. SIMPSON.

To the Editor of "Eggs."

Dear Sir,—The much too flattering report, given in your issue of September 6th, of my little talk at "Heaslands" on September 1st, while excellent as a whole, does not, I think, make it clear that several of the remarks quoted were in answer to questions.

The omission of a line in the fifth paragraph makes it appear that the hard-to-hatch eggs **delight** the poultry keeper's heart, whereas they sometimes break it.

In paragraph six, the Wyandotte hen was quoted as a concrete example, but it is obvious that Nature intended all normal birds to hatch their own eggs. A non-broody hen is not exactly a natural product. In paragraph six the caution (omitted in the report) was to provide ample litter for the baby chicks, or, better still, give access to good clean earth.

In paragraph seven, egg custard has to **SET** (become firm) before use. The italicised word was printed wet!

The old heresy that any bird not good enough to exhibit was by some wise dispensation of providence a "Utility" specimen has died hard. Am I not justified in claiming that usefulness and beauty should, can, and must go hand in hand?

Yours truly,

WILLIAM RICE.

#### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager, "Eggs," 94, Farncombe Street, London, S.E.16.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 6s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

W. J. A. (Glasgow). No. 2 is the best of the three samples of Clover Meal, in No. 3 there was very little Clover at all. The sample of Sussex Ground Oats was a very fine one. I should say worth 20s. per cwt.

W. J. D. (Harefield). The light feed of corn should be finely cracked Maize. Your wet mashers might be: Biscuit Meal 1, Sharps 3, Sussex Ground Oats 1, Bran 1, Alfalfa Meal 1, Fish or Meat Meal  $\frac{1}{2}$ . For Layers: Maize Gluten and Sussex Ground Oats 1 part each, Sharps 3, Bran 1, Fish Meal  $\frac{1}{2}$ . As a forcing mash add another part Ground Oats to this and another  $\frac{1}{2}$  part Fish Meal. You must see the birds get plenty of exercise. The first mash is intended for breeders, do not scald the Bran, use it to dry off with. The parts are by measure.

F. J. A. (Canterbury). No, the mash referred to by you was not the one. That is 3 lbs. Bran, 4 Middlings, 1 each Maize Gluten, Sussex Ground Oats, and Fish or Meat Meal. This is in hoppers always before the birds, and the grain is fed in the litter. (2) Cockerels can be fattened on dry mash, it is only a question of making it concentrated enough. You might try the following: Sharps 2 parts, Maize Meal 1, Sussex Ground Oats 2, Barley Meal 1, Dried Buttermilk 1.

J. F. C. (Hubbert's Bridge). As you are keeping 36 birds in a house 7 x 5 it doesn't leave much room for the mash hopper, the best would be one suspended along the front, an ordinary trough 6 inches deep and six-wide would answer your purpose; the follow-

ing would be the mash (by measure): 6 Bran, 4 Sharps, 1 each Gluten Feed, Ground Oats, and Fish Meal. I don't think your feeding the potatoes will affect the fertility of your breeding pen if you do not exceed the percentage you are giving now.

G. S. (Ianstown). I am pleased to hear that the feeding has given such good results, and that you have such a satisfactory lot of birds. I am sending you a good sample of Ground Oats by post. I cannot promise you that any method of feeding will prevent the moult of the pullets which have begun to lay, the only thing to do is to feed them well. Try this: 2 lbs. of Bran, 1 each of Sussex Ground Oats and Maize Germ, 4 Middlings, 1 Fish Meal. I am advising the Germ in place of the Gluten in this case, as we do not want a "layer's" mash exactly. I am interested in what you say about the dried milk, it seems hardly credible that poultry keepers here could buy it at a penny to 1½d. a lb, even if we could import it in large quantities.

S. P. (Milverton Spa). This laying dry mash has been given in "Eggs." As you cannot get Maize Germ Meal or Alfalfa, you can use the following if your Clover is good: 2 lbs. Bran, 1 Clover, 4 Midds., 1 each Sussex Ground Oats and Fish Meal and Maize Meal. (2) The following would be a good laying mash with potatoes: 1 lb. Bran, 1 Clover Meal, 1 Malt Culms, 3 lbs. Middlings, 3 Potatoes, 1 Fish Meal; allow the birds as much as they will clear up in a quarter of an hour. (3) If the birds are going through the moult normally you need not interfere with the feeding, if they seem disposed to "hang" in it add 5 per cent. Linseed Meal to the mash. No, don't confine them during the moult except in very inclement weather.

L. G. M. (Winborne). The Ground Oats at 18s. per cwt. is an excellent sample and good value for the money. The Clover Meal a good average sample meal, and this also applies to the Fish Meal.

M. E. C. (Horsell). Yes, felt houses if properly constructed will stand in a very windy place, but it is necessary that they should be well built and only the best quality felt should be used. I cannot tell you where they can be bought, as I do not know anyone who makes them for sale.

S. G. (Cupernham). Your mash is not suitable for stock which it is intended to breed from. Why not try the following which will give you much better results, the parts are by measure: 4 Bran, 2 Clover, 4 Blues, 1 Ground Oats, 1 Gluten, ½ Fish. You can give this mash at once, and need not alter before mating. (2) These birds have "eye" roup, your treatment is so far correct, but it would be a good plan to wash the mouth out with vinegar and water twice a day, say a teaspoonful with two drops of Izal added.

### POST-MORTEMS.

J. P. Moreton. I received a parcel with no name or address inside, which I believe was yours. The bird had peritonitis, due to her having ruptured yolk sac internally. She had also congestion of liver and kidneys. I don't think there was any infectious.

"Excelsior, Devon." The young cockerel was small, and the liver was pale. But otherwise there was no disease. I note that you killed him. There was certainly no "consumption" in this bird, and doubt there being any in the others. Any kind of tuberculosis is almost unknown among young chickens. If you had told me why you suspected "consumption," I should have known more what to see. As I don't know what the "symptoms" were, I can't say what might be the trouble. The remainder of the brood would be too young to breed from next year, and, if they be really unwell, it would be better not to breed from them at all.

"J. Skelton." Your hen had peritonitis, due to her having ruptured a yolk sac internally.

E. Borland. Your turkey had aspergillosis, i.e. mould in the lungs and air passages.

W. Berrill. The pullet had congestion of the lungs, kidneys, spleen and intestine. As the others are all well, I think this must have been the result of a chill.

S. M. P. Your bird had cancerous nodules along the intestine. The liver and spleen was enlarged, and infiltrated with cancerous tissues. You had better handle all your other birds, and isolate any that are definitely losing flesh as suspicious cases.

T. C. Trim. Your hen had the same appearance as described in my article on Fowl Plague. I notice you have been losing others. I wish you would let me know the temperature of any other cases. If you have no clinical thermometer, feel them to see if they be hotter than healthy birds. From your account, it is evidently an acute disease which attacks healthy birds. I think it is probably infectious.

M. Ballard. The bird died from internal haemorrhage from a ruptured ovarian vessel. Her kidneys were much enlarged. You give me no particulars, but I suggest the cause may be excess of animal food. If you give more than 10 per cent. animal food to birds kept intensively, or any at all to birds on free range in the summer, it is too much.

M. Foster. Your bird had peritonitis, due to rupturing a yolk sac internally. She had congestion of lungs and kidneys. She had also masses of hardened yolk in the oviduct. Probably she had broken an egg some time ago, and the remains blocked the passage, so that the yolks could not pass down. Her liver was also much diseased.

## HOW TO MAKE A START IN POULTRY FARMING.

### WHAT IT WILL COST.

Mrs. Rawson, the Secretary of the National Utility Poultry Society gave a most interesting and instructive lecture last Friday on "The Essential Points in Starting Poultry Farming" at Mr. E. Bostock Smith's farm, "Heuslands," Haywards Heath, here being present a good gathering of visitors as well as the staff and pupils.

In introducing her subject, Mrs. Rawson said:—in the first place one must train in poultry keeping—the reason why so many beginners go down after a year or two is on account of inexperience; they think that poultry farming is just a matter of throwing grain into a fowl's house, and they know nothing of the problems which face the poultry keeper at every turn.

Commercial egg farming is possibly the most practicable and easiest branch of poultry keeping for the beginner, and the one I should recommend, because he does not come up against the competition which is met in the other directions. With £500 it is a difficult matter to make a start, but with this amount of capital and a living in addition it is a possibility. Whatever sum one has they must put aside sufficient for living expenses, and must run their farm for twelve months at least before receiving anything back. Assuming that one was starting now, the whole of the autumn should be spent in putting up houses; they cannot afford to pay for houses, and by putting up one's own it is possible to cut down the cost by half. It is better for two people to commence together; poultry farming is a whole-time job, and whilst one is doing the ordinary routine the other can be building houses and other carpentry work.

By far the best way to start, the way I should advise, is with small houses and oil hovers inside, the 100-chick size being used for sixty chicks. The small houses will do for colony houses as you grow. Of course, when you reach the stage of thousands and you need bigger flocks you will have to do things on a bigger scale, but by then you will be able to afford to do it.

Whatever number of pullets you are aiming for you will have to rear twice the number of chicks to obtain them, and you will have to rear one thousand chicks to get five hundred pullets. Your incubator must take five times more eggs than you require pullets, counting on two eggs to produce a chick, two chicks to produce a pullet, and allowing one for losses during rearing.

I have studied the question of costings very closely, and to put every pullet in your house it will cost 10s. 6d. to 11s. each before you begin to get anything back. A bird costs about 4d. per head per week to keep including labour, and it should be possible to feed for 2d. or 2½d. per week. If you use small hovers you will require to put up, say, three 30 ft. x 12 ft. houses for your pullets in the first year. I think you will find the house, if you put it up yourself, will cost about 25s. per foot. This is a rough estimate,

and as wood at the present time is down very low, it may be possible for those with experience in the work to do it for 20s. It will be seen that a house such as that mentioned will cost about £35.

The question arises whether it is better to buy eggs for incubation or have your own birds. When I started I went in for White Leghorns, and bought birds which were going into their third year; they can be obtained cheaply, and you know the history of them. If you buy pullets you are getting something about which you know nothing, and I always prefer breeding from hens. Pullet breeding is alright if you use pullets which have been bred from hens, but do not breed from their progeny in their pullet year.

Commencing in a small way you have got to make every penny you can at the time when the profit is greatest. Business capacity plays a large part in the success of poultry farming. Always keep records, how many eggs are laid, what they fetch in comparison to the cost of foodstuffs, and all items of expense.

Start with the very best stock and keep to one breed. It is much better to commence with one breed and get known for that breed rather than keep various kinds.

### MARKETING.

The question of marketing your goods is as important as anything else. In this country we are lamentably behind in the matter of marketing our produce. The Danish eggs which arrive on our markets are all tested, and in each case there is a ticket certifying that the eggs are over 2 ozs. You will always find that if you send your produce up in good condition, you will get the best prices.

In answer to a question, Mrs. Rawson recommended incubator hatching in preference to hen hatching, unless it was only a question of a sitting or two. Chicks from incubators, she said, were absolutely as healthy as those from hens, although a hen will hatch eggs which an incubator will not. An incubator is absolutely necessary apart from the fact that a hen will not always go broody at the time she is wanted.

In replying to another question, the lecturer said that with a living and a capital of £500 it may not be possible to secure a living at the end of fourteen months. One really needs £750 to make it a paying proposition, and if at the end of fourteen months the pullets are laying and produce, say, three dozen eggs in three winter months, which sell for 9s., whilst costing 4s. for food, a profit of 5s. per bird will be the result. From this figure one can estimate what would be their probable income. Really to make a decent living out of poultry farming, said the lecturer, one should have 2,000 birds, or at least 1,500, and it will take three years to build your stock to this number. With sufficient capital it is, of course, a different matter and quite an easy task.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, SEPTEMBER 8th, 1922.

GRAIN AND FEEDING STUFFS.—Good sound samples of British wheat sell readily, but the bulk of the offerings up to the present have been of indifferent quality, and for these there is little demand. Prices are easier on the week, now ranging from about 40s., 41s. 6d. per 504 lbs., while imported wheat is



also easier, No. 2 Hard Winter being quoted at 47s. 3d. to 49s. per 496 lbs. New feeding barley is firm in value, but black winter oats have a weaker tendency, quality being only moderate.

Milling offals are cheaper, coarse middlings averaging slightly over £9 per ton. Maize.—Argentine, 43s. 6d. per 480 lbs.; London, American, 36s.; South African, 38s. 6d.

**MILLERS' OFFALS.**—Bran (British): Bristol, £6 15s.; Hull, £6 2s.; Liverpool, £6 15s.; London, £6 7s. Broad Bran: Hull, £7 2s.; London, £8. Fine Middlings (Imported): London, £9 2s. Coarse Middlings (British): Bristol, £9 10s.; Hull, £9 7s.; Liverpool, £9 5s.; London, £8 5s. Pollards (Imported): Hull, £6 10s.; Liverpool, £7 10s.; London, £6 15s. Rice Bran: Bristol, £8; Liverpool, £7 15s. **MEAL.**—Barley Meal: Bristol, £11 2s.; Hull, £10 15s.; London, £11 5s. Maize Meal: Bristol, £10 7s.; Hull, £9 5s.; Liverpool, £9 5s. Maize Meal (S. African): Hull, £8 17s.; Liverpool, £8 15s.; London, £9. Maize Germ Meal: Bristol, £10 5s.; Hull, £8 15s.; London, £9 2s.

#### EGGS AND DEAD POULTRY.

A further advance is recorded in the price of eggs, but the demand is only moderate, and the upward movement is not rapid. Week-end prices per 120: English, 23s., 25s.; Irish, 19s., 20s.; Dutch all brown, 22s. 6d., 23s. 6d.; Danish, 18lb., 19s., 21s.; French, 22s., 19s.; Lithuanian, 15s., 13s.; Polish, 11s. 6d., 13s. Dead Poultry, London.—Surrey Fowls, 1s. 9d., 1s. 6d.; Others, 1s. 6d., 1s. 3d. per lb. Ducks, 1s. 4d., 1s. Geese, 1s. 3d., 1s.

#### EGGS.

Per Doz.—Ashford: First, 2s. 7d.; Second, 2s. 6d. Birmingham: First, 2s. 1d.; Second, 1s. 11d. Carlisle: First, 2s. 6d. Chelmsford: First, 2s. 3d. Denbigh: First, 2s. 3d.; Second, 2s. 0d. Derby: First, 2s. 2d. Dorchester: First, 2s. 3d. Exeter: First, 2s. 6d. Hereford: First, 2s. 0d. Hull: First, 2s. 0d. Ipswich: First, 2s. 3d.; Second, 2s. 0d. King's Lynn: First, 2s. 2d. Lincoln: First, 2s. 3d. Llandilo: First, 2s. 0d.; Second, 1s. 10d. Newport (Mon.): First, 2s. 3d. Norwich: First, 2s. 3d. Oswestry: First, 2s. 8d.; Second, 2s. 6d. Penzance: First, 1s. 9d.; Second, 1s. 8d. Salisbury: First, 2s. 4d.; Second, 2s. 3d. Shrewsbury: First, 2s. 6d.; Second, 2s. 3d. Skipton: First, 2s. 0d. Taunton: First, 1s. 10d. Truro: First, 1s. 9d. York: First, 2s. 3d.; Second, 2s. 0d.

#### FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, \*4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 3d. Hereford: First, 1s. 4d. Ipswich: First, \*6s. 6d.; Second, \*4s. 6d. Lincoln: First, \*6s. 0d.; Second, \*3s. 9d. Llandilo: First, 1s. 9d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 1s. 9d.; Second, 1s. 6d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 6d. York: First, \*5s. 6d.; Second, \*4s. 9d.

#### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, \*4s. 6d.; Second, \*3s. 6d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 9d.; Second, 1s. 7d. Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First, \*7s. 0d.; Second, \*5s. 0d.

\* Per Head.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### FIFTEENTH LIST.

Carried Forward ... £674 16s. 8d.

	s.	d.
E. Watkins ... ..	100	0
K. A. W. Leighton ... ..	5	0
E. E. Rivington ... ..	5	0
J. S. Revill ... ..	5	0
Miss M. Rigden ... ..	2	6
M. T. Dixon ... ..	4	6
F. E. Hiorns ... ..	2	6
W. F. Fox ... ..	10	0
Capt. A. C. Beckett, M.C., D.C.M.	10	0
H. Colclough ... ..	5	0
George Ryan ... ..	10	0
W. W. Bennett ... ..	2	6

Capt. E. W. Foljambe ... ..	5	0
Messrs. Richardson and Ashton ...	5	0
J. Seddon ... ..	2	0
E. C. Hayward ... ..	5	0
S. E. Relf ... ..	1	0
Miss H. Syme ... ..	3	0
Y. A. Kenworthy ... ..	5	0
S. Waites ... ..	5	0
F. Litchfield ... ..	15	0
H. Browning ... ..	2	0
K. Francis ... ..	5	0
R. T. Sagar ... ..	2	0
H. Spencer ... ..	2	0
Mrs. F. C. Falloon ... ..	10	0
Messrs. A. and H. Lumb ... ..	10	0
C. M. Kelsall ... ..	15	0
J. H. Overall ... ..	2	0
W. F. Bidgood ... ..	2	0
R. Holden ... ..	5	0
Mrs. C. A. Edwards ... ..	5	0
H. W. Tutton ... ..	2	0
Joseph S. Boyd ... ..	2	0
A. Shenton ... ..	2	0
J. L. Griffith ... ..	2	0
J. A. Isaacs ... ..	7	0
A. W. Podger ... ..	5	0
Miss M. Grehan ... ..	2	0
W. Jermyn Hussey (2nd Donation)...	4	0
Rev. F. G. Witt ... ..	10	0
S. E. Adams ... ..	2	0
Mrs. Hunter ... ..	21	0
J. Smart ... ..	10	0
Miss E. J. Jenkinson ... ..	10	0
G. C. Roberts ... ..	2	0
Stuart Richardson ... ..	10	0
H. A. Westwood ... ..	2	0
E. Russell Burdon ... ..	5	0
Miss L. Atkinson ... ..	2	0
T. L. ... ..	3	0
F. Rawcliffe ... ..	2	0
A. E. White ... ..	7	0
Miss Clough ... ..	2	0
C. R. Panton ... ..	5	0

Total ... £694 8 9

#### APPLICANTS FOR MEMBERSHIP.

Countess Buxton, Newtimber Place, Hassocks, Sussex.  
Fogden, E. W., Princess Mary's Convalescent Centre, Redditch, Birmingham.  
Dixon, M. T., Casetta, Hare Lane, S. Godstone.  
Clive, Miss K., Sprivers, Horsemonden, Kent.  
McCallum, Miss B., Fairhaven, Degawell, Welwyn, Herts.  
Leighton, Capt. H. Melville, Lemsford Poultry Farm, Hatfield, Herts.  
Kinnon, J. M., 16, S. Hamilton Street, Kilmarnock.  
P. Weaden, 21, Clifton Street, Darwen, Lanarkshire.  
Colclough, H., Lightwood Lodge, Lightwood, Stoke-on-Trent.  
Pearson, B., Blackwell Ox Inn, Carlton, Stokesley, Yorks.  
Kensington, Lt.-Col. W. L., Voakes, Thakeham, Sussex.  
McDermott, Capt. F., c/o Mrs. Edwards, "Penlai," St. Mawes, Cornwall.  
Holmes, W., Red House, Westleton, Suffolk.  
Kellett, Gerald, 88, Reeve Street, Wibsey, Bradford.  
Hall, A., 136, Halliwell Road, Bolton.  
Davenport, Miss D. R., Waterside House, Gorton, Manchester.  
Gibson, R., Rhos Street, Ruthin, N. Wales.  
Parr, A., Priestsbridge, Morpeth, Northumberland.  
Yeomans, A. R., 11, Merlin Road, Manor Park, London, E.C.

Mrs. McClintock, 36, Highfield Road, Rathgar, Dublin.  
 sher, F. A., 4, Dursley Road, Shirehampton, Nr. Bristol.  
 any, A., 1, Clockface Road, Marshalls Cross, St. Helens,  
 Lancs.  
 ham, Maj. B. C., Woodside, Ashley Rd., Walton-on-Thames.  
 es, C., Springhill Poultry Farm, Camp Road, Canwell,  
 Birmingham.  
 uglas, P. C., Rosebank, Cumbernauld, Dumbartonshire.  
 mes, R., Utility Poultry Farm, Trends Hayes, Rayleigh,  
 Essex.  
 verley, J. G., Durley Dene, Upminster, Essex.  
 right, H., 46, Southwark Street, London, E.C.  
 enderson, Admiral W., "Ryecroft," Ropley, Hants.  
 esars, Wauchope and Hill, The Glen, Swanwick, Hants.  
 esall, C. M., Greenbank, Wortling, Basingstoke, Hants.  
 homson, Harold J., "Shandwick," 31, Cobham Road,  
 Westcliffe-on-Sea, Essex.  
 awlins, Capt. H. D., "The Duke's Head" Inn, Hatfield  
 Broad Oak, Harlow, Essex.  
 regory, J. W., 15, Prebend Garden, Chiswick, W.4.  
 omes, Bros., Sybill Poultry Farm, New Higham, Nr.  
 Alfreton, Derbyshire.  
 utton, H. W., River View, Swanwick, Hants.  
 hompson, W., St. Anne's House, Sutton Bonington,  
 Loughborough.  
 hymes, H. G., Northway, Tewkesbury, Glos.  
 obson, H. C., Hillside Poultry Farm, Joel Lane, Hyde,  
 Cheshire.  
 ounne, Mrs. H., The High Croft, Painswick, Glos.  
 rost, Mrs. M., Kingsford, Culmpton.  
 mith, S. Gordon, Grove Poultry Farm, Sonning Common,  
 Nr. Reading.  
 arkinson, A. E., Elmswood Farm, Rydens Road, Walton-on-  
 Thames.  
 Simpson, H. F., Waterheath Farm, Aldeby, Beccles, Sutton.  
 Davidson, J., Rydall Villas, Uppernill, Nr. Oldham.  
 Freeman, Jas. W., Secretary's Office, Melton Constable Park,  
 Norfolk.  
 eason, Miss I., Yew Tree Farm, Leigh, Stoke-on-Trent.  
 inger, F. W., 5, Station Road, Furness Road, Nr. Stockport.  
 idd, Miss B., Blairennoch, Gartocharn, Alexandria,  
 Dumbartonshire.  
 Brown, Miss A. M., Broomfield, Luss, Dumbartonshire.  
 eddon, J., 28, Wroe Street, Clifton, Manchester.  
 hylthead, J. L., 9, Havelock Road, Handsworth, Birmingham.  
 brewer, B. C., Whiteway Poultry Farm, Cirencester.  
 Barnard, L. W., Bittams, Leckhampton.  
 Thomas, E., "Cartref," Forest Road, Loughborough, Leics.  
 Taylor, A. L., The Cottage, Nuthall, Notts.  
 Seave, Miss M. M., Inoicta, Council Small Holdings, Goring-  
 by-Sea.  
 James, H., Little Compton, Moreton-in-Marsh, Glos.  
 nskeep, H. C., 89, Purley Vale, Purley, Surrey.  
 Spencer, A. G., White Cottage Poultry Farm, Hatfield Peverel,  
 Essex.  
 Kettlewell, Mrs. M. F., Rusham House, Egham, Surrey.  
 Goode, C. N., The Haydens, Bletsoe, Bedford.  
 Thomas, J. Langdon, The Elty Poultry Farm, Flax Bourton,  
 Som.  
 Ponton, C. R., Rose Thicket, Hoe Gate, Hambledon, Hants.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM  
 NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### IMPORTANT NOTICE.

Members are reminded that the financial year of the Association terminates on August 31st, and all subscriptions are due as from that date.

The subscription is a minimum one of 5s. per annum.

The names of members whose subscription is unpaid by October 15th, cannot be inserted in the Annual Register.

The rules of the Association provide that three mem-

bers of the Council retire annually, but are eligible for re-election.

Nominations for membership of the Council should be forwarded to the Secretary, not later than Friday, September 15th.

The Annual Register will be published in December, and a copy will be sent to each member *whose subscription is paid*.

Members who desire to register their birds, should apply to Mr. H. Mudie-Draper, Revesby, Holmfield Road, Leicester, for registration forms.

All applications for advertisement space in the Register should be addressed to Mr. F. J. Churchyard, 94, Farncombe Street, Bermondsey, S.E.16.

Alterations or corrections of address should be sent to the Hon. Sec. as soon as possible.

Members who desire the S.P.B.A. Badge should send one shilling with their subscription.

### THE MALE BIRD.

When the breeding season is over, it is the common practice to remove the male from the pen on the plea that he needs a rest, and should be kept away from the hens until the next season. Now, Mr. E. C. B. Boucher writes me that this is a very great mistake, as he says, and I entirely agree with him, when males are removed like this, they are very often sterile the following season. I think this has been proved time and again, and I mention it now because so many members who have reserved valuable males for next breeding season will remove them and isolate them until they want to mate their pens. It is advisable to remove them for a short time during the moult, but after that they should be permitted to run with the hens. We are in the habit of attributing infertility entirely to the male; the female is quite as often at fault. Mr. Boucher says also that a male which has been badly bullied, is of very little use as a breeder; that is also true; in the first place he is rarely in breeding condition; and, secondly, he is so "nervy" that he rarely consorts with his mates.

### CONCENTRATED POULTRY-KEEPING.

There is an interesting description of Californian methods of Poultry Raising and Marketing in the current issue of the Journal of the Ministry of Agriculture. From a district of some 50 square miles in extent 22 million dozen eggs, and 240,000 dozen poultry were shipped in 1920. A farm of 2,500 hens is considered to be one man's work, and the annual nett profit of one dollar 10 cents. (normally 4s. 7d.) per hen is considered a somewhat low average.

The poultry raiser in Petaluma usually obtains his stock from one of the "Hatcheries" in this town of 6,000 inhabitants. One of these, which may be taken as typical, hatched out one million chicks in 1921. The eggs are bought at about 10 cents above current prices by the hatchery, which is a business concern, and in no sense co-operative. The resultant chicks are sold at about three times the price of the eggs. Eggs for hatching are bought from specially selected ranches, known to the hatcheries as possessors of highly productive strains. In some cases the hatcheries themselves supply cockerels, and are thus in very close touch with the pedigrees of the birds they hatch. The incubators are arranged in tiers on racks in a large room, and are

heated by gas or electric appliances regulated by thermostats, of which there is one in each chamber. The air is kept comparatively moist by leaving the ground beneath the racks exposed, only the alleyways between being paved. This is scarcely sufficient for the upper ranges of incubators, and where further moistening is required it is provided by means of pans in the incubators. The eggs are turned by hand, the trays being grooved to make this task easy. The owners of the hatchery in question prefer this method to mechanical turning, as their experience shows that the mechanical method is productive of a considerable percentage of abnormal chicks. By the hand-turning method, combined, of course, with careful tending throughout the hatching period, an average hatch of 80, good chicks in every 100 is obtained.

The size of the flocks of young chicks placed in the brooders is a feature in Petaluma. The batches vary from 500 to 6,000, 2,000 being a frequent quantity. The cockerels are separated at the earliest possible moment. Success is only due to detailed personal attention to such matters as feeding, ventilation, control of light, and care that the chicks do not damage each other by toe-picking, overcrowding, and so on.

**Housing.** Many of the Petaluma ranches still retain the "Colony" type of house with a common run for several houses, but these are being supplanted, whenever possible, by more modern types of houses. The scheme now being adopted is to provide a house accommodating some 3,000 laying hens, the house being divided into sections, each holding about 250 birds. A separate run is provided for each section, and, where possible, a double run is used. The houses on this ranch, some 50ft. long by 20ft. wide, are built to accommodate 500 hens. They are lighted by muslin covered windows and by electric light. The roosting perches run lengthways, are movable, and on one level. *They are wide enough for the hen to perch without grasping with the feet, as this form of perch is considered to be less tiring for the hen, and hence to contribute something towards its egg-laying capacity.*

Feed mixtures are placed in a dry mash hopper. It appears that the advocates of dry and wet mash are fairly divided, though probably slightly more dry mash is fed, on account of the saving in labour, a dry mash hopper only needing to be filled once or twice a week.

The problem of fouling of land in Petaluma Valley is a comparatively easy one. The soil is almost everywhere a light sandy loam, porous and productive; the climate is mild and equable; and the district being well provided with small hills, natural drainage is almost universal. Under these conditions the double-yard system can be used to great advantage. A foul yard is ploughed up, rested for a few days, and then sown with a quick-sprouting seed. At the end of three weeks there is usually a growth of some six or seven inches high, and the birds will be turned on this. It is thus possible to confine the birds to an area which they will completely foul in three or four weeks, and, by carrying out the process described above, to keep a large flock of poultry on a very small tract of ground.

This is a very rosy picture, but some of us will remember the other side presented by Mr. Fred Fielding a few months ago.

## CONSUMPTION OF FOOD. LIGHT v. HEAVY BREEDS.

In last week's issue Mr. E. Rigby asked a question as to how much less food a Leghorn consumes than a heavy breed, say a Wyandotte, in the course of a year. For the following reply I am indebted to the Woods Poultry Farm, Swallowbeck:—

"The question is answered for him in Bulletin of the Storrs' Experimental Station. The following figures are extracted from that bulletin, and printed in the "Reliable Poultry Journal" for August, from which I quote.

"The following table gives the average feed consumption for the five-year period 1913-1918, also number of eggs produced and weight of eggs per dozen:—

Breed.	Eggs.	Weight per dozen ozs.	Mash Pounds.	Grain Pounds.
Plymouth Rocks ...	23.9.	23.0.	623	
Wyandottes .....	1626	23.3.	554	
R.I. Reds .....	1480.	24.5.	584	
White Leghorns ...	1624	24.1.	494	
Miscellaneous .....	1538	25.0.	529.	
All Breeds .....	1589.	24.0.	544.	

At the risk of trespassing too freely on your space, I venture to think the following figures will be of interest also. They are from the same bulletin:—

"Three factors (number of eggs from 100lbs. of feed, eggs required to pay for feed, value of eggs from each dollar spent for feed) have been computed with a view to an idea of securing such a basis of comparing figures as would show the results of the comparison would not be materially influenced by a rise in egg prices or increase in cost of feed."

For the convenience of the reader who is not in the habit of thinking in dollars, I have calculated the three factors in English currency, and show value for each spent on feed:—

Breed.	No. of eggs for each 100 pounds of food consumed.	No. of eggs required to feed pen of 10 birds.	Value of eggs returned for each £ spent in food.
Plymouth Rocks .	158.	721.	£2 3 0
R.I. Reds .....	159.	695.	£2 3 7
Wyandottes .....	182.	645.	£2 10 7½
Leghorns .....	195.	627.	£2 11 7½

It is obvious, of course, that while these figures represent the actual average results in America, they cannot be relied on too closely as applied to this country. The climate is very different, and that alone might make a considerable difference. But I venture to think it would be found that while the total might be different, and probably would be different, for the purposes of comparison as between breeds, there will not be any noticeable variance as between this country and America."

## DISCOUNTS.

Mr. J. V. M. Lennard, the manufacturer of the well-known "Pondtail" poultry houses, has written to say that he is willing to allow a discount of 10 per cent. to all members of the S.P.B.A. who purchase his houses through the Association.

The Tetney Oil and Meal Co., Ltd., have also intimated their willingness to allow a discount of 10 per cent. on the "Tetnite" Fish Meal, of which they are the manufacturers.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S EDIGREE POULTRY.

Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

BOUGHTON via NORWICH.

### F. A. HULME,

Heathfield Commercial Egg Farms,  
HEATHFIELD, SUSSEX.

White Leghorns.

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I. Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

### Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.,

HYMPT, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

### ONE OF THESE SPACES COSTS:

13 weeks, 5s. 6d. per insertion

26 " 5s. 0d. " "

52 " 4s. 6d. " "

(Not less than 13 accepted)

### WHITE WYANDOTTES.

L. WILLIAMS.

Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

### E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S. and N.U.P.S.

Breeder of the Highest Class Pedigree  
Utility Poultry.

"HEASELANDS," HAYWARDS HEATH, SUSSEX.  
Phone—Haywards Heath; 92.

White Leghorns,  
White Wyandottes,  
Rhode Island Reds. S.C.

Light Sussex.  
Mandals, Black.  
Black Leghorns.

MAJOR E. P. WIDDICOMBE,  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

### Coaley Poultry Farm,

GLOUCESTERSHIRE. Est. 1894.

White Wyandottes. Buff Orpingtons.  
White Leghorns. Light Sussex.  
Rhode Island Reds. Black Leghorns.  
Breeding Pens. Pullets. Cockerels.

COALEY FAWN DUCKS (1st at Bentley  
for Six Months).

### HOLMES and HOLMES,

S.P.B.A., N.U.P.S., L.B.P.S.,

T.A. FOXDELL, CHALFONT, ST. PETER'S.

Breeders of High-Class Pedigree Stock.

White Wyandottes, White Leghorns.

Light Sussex, Rhode Island Reds.

"FOXDELL" Herd of Large Black Pigs.

LODGE FARM, CHALFONT, ST. PETER'S,

BERKS.

Telephone: Chalfont St. Giles 54.

### WHITE LEGHORN FARM, WOODMAN- COTT, MICHELDEVER, HANTS.

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

A. F. C. HOLDAWAY.

### R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinchurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.

Eggs and Day-old Chicks.

Cockerels, Pullets and Breeding Pens.

Enquiries Invited.

### K. E. FIELD-HART

#### WHITE LEGHORNS

Breeding Hens for Sale in Sept.

THE LIMBERLOST,  
HEATHFIELD, SUSSEX.

### Mrs. HARRY KENT,

Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.

Telephone: 23 Handcross.

Exhibition and Pure-bred Trap-Nested  
Utility Poultry.

LIGHT SUSSEX.

WHITE LEGHORNS.

BLACK LEGHORNS.

Speciality.—Three Months' Old Pullets from  
15s.

Illustrated Catalogue Post Free.

MISS ARGLES, N.U.P.S., B.C.

Pullets and Cockerels bred from my famous  
White Wyandottes.

Twice top score, one third in four years in  
All Ireland Laying Competition.

White Leghorns, Miss Edwards' splendid  
laying strain.

From 10/6, according to age and pen.

ANSTY POULTRY FARM,

ALTON, HANTS.



### Exhibition and Pure-Bred Utility Birds.

LIGHT SUSSEX.—1st and Sp., Lewes. 1st and Sp.,  
Redhill. 1st and Sp., Tunbridge Wells. 2nd  
Utility, Crystal Palace, etc.

WHITE LEGHORNS.—1st Redhill. 1st, Uckfield. 1st.  
Sussex Agricultural, etc.

BLACK LEGHORNS.—1st and Sp., Lewes. 1st Royal  
Counties. 1st, Royal. 1st, Tunbridge Wells,  
etc., etc.

TOULOUSE GEESE, AYLESBURY DUCKS.

COCKERELS: 21/- to £3 3s. 0d.

PULLETS: 17/6 to £2 2s. 0d.

All Birds sent on Four Days' Approval.

All Birds Trap-nested. Only 12 Birds bred from.  
Please note Change of Address, and when in our  
neighbourhood do not fail to visit our new 110 ACRE  
MODEL FARM. Write to-day for Free Illustrated  
Price List to

### MRS. HARRY KENT,

STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.

Station: PEVENSEY or BEXHILL.

Try us for your WET AND DRY MASHES,  
made to your own requirements.

We offer the following:—

	per cwt.
	s. d.
NEWMAN'S POULTRY MASH .....	15 0
MIDDS .....	11 0
BRAN BROAD .....	11 0
BRAN ORDINARY .....	8
MAIZE GLUTEN FEED .....	12 0
SUSSEX GROUND OATS .....	20 0
BISCUIT MEAL .....	22 0
CLOVER MEAL .....	18 0
ENGLISH CLIPPED OATS .....	16 0
Special Line Best MEAT MEAL .....	21 0

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

DRAKARD & CO., Ltd.,

Corn Merchants,

PUBLIC HALL, HADLIGH, ESSEX.



## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS ... 9d. extra.**  
**DAY-OLD CHICKS ... 1s. extra.**  
**DAY-OLD CHICKS 1/6 ex.**

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

1 insertion for the price of 2	2
6 "	4
9 "	6
13 "	8

### FOR SALE. PULLETS

100 R.I. REDS, April hatched; 15s. each. Also 80 WHITE LEGHORNS, end April and early May hatched; from hens with trap-nest records of 194 to 258; 18s. 6d. each. Limited number extra special, and fit for entry, with Laying Tests; 25s. 6d. each; all splendid stock.—C. D. Cheesbrough, Carlton, Nottingham.

150 Beautiful Cross-bred Pullets; state requirement; 6s. 9d., 7s. 6d., 9s. each, carriage paid.—Joy, Teall Street, Wakefield.

WHITE WYANDOTTES, 1922, hatched February and March, sires from L. Williams; from 17s. 6d. to £1 each; approval; deposit with Editor.—Cowlshaw, Oak Lodge, Loudwater, Bucks.

WHITE WYANDOTTES, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlshaw, Oak Lodge, Loudwater, Bucks.

WHITE WYANDOTTE Pullets, 5th March, 3rd April hatched (pure Cam's), 20s. each. Approval.—Eccles and Briggs, Fanton Hall, Wickford, Essex.

LA BRESSE - WYANDOTTES, March hatched, from heavy layers of large eggs (both sides).—Captain Heseltine, Ropley.

R.I.R. Pullets; splendid condition; bred from hens with 200 to 250 records; sire's dams, 281 and 299; March and April hatched; from 12s. 6d. each.—D. Hasler, Little House, Frinton-on-Sea.

BLACK LEGHORN 1922 Pullets (Upjohn-American), in full lay; 17s. 6d. each. Also WHITE LEGHORN Pullets, in full lay; Cam-Barron, 15s.; 1921 Hens, 8s. Approval.—Dr. G. P. Wilson, Ketton, Stamford.

### PEDIGREE UTILITY PULLETS, 1922.

50 R.I.R. and WHITE LEGHORN Pullets, four months old, sired by Golden's special stock birds; sisters averaged 98 in four winter months; unlimited grass range; 10s. 6d.; selected, 12s. 6d. Cash with approval, or deposit with Editor.—T. F. Wildman, M.S.P.B.A., Newbold Verdon, Leicestershire.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; One Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates and other Special Position by arrangements. Discounts for series. Full scale of pricing rates on application.

ADVERTISEMENTS must reach **Mr. F. J. CHURCHYARD, 94, Farncombe Road, London, S.E.16** by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Amount of cash must accompany every advertisement. Write plainly. The Manager is not responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers asked to make full use of same. When remitting direct to Editor on deposit the amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

BUFF ORPINGTON, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

### WHITE WYANDOTTE PULLETS.

March hatched, from L2 dams; sires from Tom Barron's pen 8; 15s. each. A few April hatched at 12s. 6d. Also some 1921 Hens, all splendid layers; 10s. 6d. each. Overstocked, must sell. Reduction on more than six.—Miss Hardman, Dunsfold, near Godalming.

Cook's 270-egg (s.c.) R.I.R.—Cam's 290-egg WHITE WYANDOTTES, 1922 Pullets, 10s. 6d.; guaranteed good healthy birds.—Simms, M.P.C., M.S.P.C., Heathfield, Sussex.

Twelve LIGHT SUSSEX, March and February, 1922; well-grown and healthy (Rothschild's); 20s. each; £11 the pen.—The Dales Poultry Farm, Syston, Leics.

Twelve WHITE WYANDOTTE Pullets, February hatched, from P. L. Johnson, Esq.'s Registered Pen; £1 each. Deposit.—Miss Riddell, Frensham, Farnham.

27 WHITE LEGHORN Pullets, April hatched, eggs from Major Eden; 12s. 6d. each, £16 the lot. Three R.I.R.'s, March hatched, eggs from Dr. Baldwin; 15s. each. Free range. Dry mash. Selling whole stock owing to move.—Rowe, Manor Farm, Cranborne, Salisbury.

S.c. R.I. RED Pullets, from my Registered Pen hatched April 3rd; 10s. 6d. each.—Marchant, Anmer, King's Lynn.

Three January, 1922, WHITE WYANDOTTE Pullets, laying; 30s. each (Barron). Six February; 25s. each (Cam). Top quality birds. Pedigree given.—Miss Newman, N.U.P.S., S.P.B.A., The Dower House, Goodrest, Shinfield, Reading.

Six WHITE WYANDOTTE Pullets, April hatched; Metcalfe's strain; from £2, trap-nest hens; room wanted; 10s. each; approval.—Miss Walker, S.P.B.A., Hayton House, Carlisle.

BUFF ROCK Pullets, February and March hatched, 1922, from L2 birds (average 187 eggs); price 17s. 6d. each.—Worters, Uplands, Rotherfield, Sussex.

### HENS.

WHITE WYANDOTTE Hens, 200; Barron and Latham strains. Also LIGHT SUSSEX. All March, 1921, hatched; 6s. each, carriage paid. Approval.—Morris, Brook End Farm, Abberley, Leicestershire.

Twelve WHITE LEGHORNS, 1921, 5s. each. 1921 Cock, Barron direct, 15s. Fidler, Colehill, Wimborne.

### RINGMER, SUSSEX.

WHITE LEGHORNS, 1921 and 1920. Selected birds only, all layers of large eggs, guaranteed no illness whatsoever, 15s. and 17s. reduction on quantities.—Wellington House Poultry Farm.

7s. 6d. (HATCHED, 1921.) 7s. 6d. (HATCHED 1921.) 7s. 6d. 1s. 6d. 60 W. LEGHORNS (Cooks St. Mary direct), splendid hens, in grand condition.—G. Hanson, Brooklyn Egg Farm, Leicestershire.

### WHITE LEGHORNS (BARRON'S). BLACK LEGHORNS (UPJOHN-BIRKETT).

All records above 130 for nine months. Selected birds only. 15s. and 17s. 6d. Make excellent breeding stock. A few Hens, each breed 7s. 6d. each. Any approval.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

### COCKS AND COCKERELS.

WHITE LEGHORN COCKERELS. Cam's extra-special Pen No. 2, hatched, £1 1s.—Major Salkeld, Holme Dalston, Cumberland.

Stock Cockerels, WHITE LEGHORN (Padman-Barron's), RHODE ISLAND (Measure's). March and April hatched, 10s. 6d. and 7s. 6d. each, carriage paid. Miss Turner, Dale Hall, Ipswich.

Cockerels, March-May hatched, 10s. immediate disposal; WHITE LEGHORN WYANDOTTE and RHODE ISLAND strains. Pedigrees given.—Wheeler, Hey, Great Sutton, Cheshire.

September 13th, 1922.

## EGGS.

**WHITE LEGHORNS**, from Major Lee's **Merced Pens**, hatched February; dam's **Merced** October 15th. January 15th, 58-65; **Merced** each.—**Strong**, 7, Pownall Gardens, **Merced**.

**COCK BIRDS**. 75 per cent. Reductions **Merced** now. Choice 1922 Cockerels, **Wyan-** and **Leghorns**, **Cam**, **Barron**, **Snow-** 10s. 6d. and 15s. Two magnificent 1921 **Wyandotte** Cockerels (**Cam**), 27s. each. — **S.P.B.A.**, **Orton Waterville**, **Hunts**.

### PEDIGREE R.I.R. (Sc.) COCKERELS.

**Boucher's Pen I.**, dam's records 279-  
Grand dam **Boucher** No. 48, sire's dam  
**Merced**, famous 37. Also from **Mrs.**  
**Wabe's** late **Pen II.**, headed by winner  
and special prizes **Luton**, and fourth  
**Merced**, 1920, from 10s. 6d. each. —  
**Merced**, **Northbourne**, **Bransgore**, **Hants**.

**Cockerels**. **WHITE WYANDOTTE**, **WHITE**  
**LEGHORNS**, February and March hatched;  
6d., 15s. Pedigrees on application. —  
**Merced**, **Moneysland Poultry Farm**, **Craw-**

**R.I.R.** Cockerels, hatched April 6th, by  
**Boucher** sires' sons of his 1,000-egg hen,  
**Merced's** daughter of his 942 big egg hen;  
every cockerel guaranteed; price 12s. 6d.—  
**Merced**, 3, **Parade**, **Barry**.

**Few Selected RHODE Cockerels**, from  
**Merced** laying 66 24oz. eggs in November,  
**Merced**, January; sire **Golden's Extra**  
**Merced** Pen direct; 24oz. Egg Pedigree on  
both sides; 25s. each. Also sturdy dark  
cockerels, with 24oz. Egg Pedigree both  
sides; **Stock Boucher** direct; 15s. each.  
**WHITE WYANDOTTE Cockerels** (**March**),  
**Merced** **Barron** Strain direct; dam's winter  
cord 61 24ozs. eggs. Sire's dam 248 24oz.—  
124oz. eggs; 15s. each. All carriage paid.  
**Miss Clark**, **Leafmore**, **Liss**, **Hants**.

### BUFF ROCK COCKERELS.

**February** hatched, by **E. and F. Hunt**,  
**Merced** registered pen; 17s. 6d. each; deposit.  
**Wannaway**, **M.S.P.B.A.**, **Cherry Tree Poul-**  
**Merced** Farm, **Sanderstead**, **Surrey**.

**Few Pedigree WHITE LEGHORN Cock-**  
**Merced**, sired by son of a 277-egg hen; toe-  
marked; 7s. 6d., 10s. 6d.—**Particulars**, **W.**  
**Graham**, **Rotherfield**, **Sussex**.

### R. BALDWIN'S DIRECT.

**WHITE WYANDOTTE Cockerels**, **Febr-**  
**Merced** and **March** hatched, bred from pens  
tested parents and pens headed cock-  
els, bred from proved **L2** birds; 21s. each.  
Carriage paid; **September** and **October**. —  
**Wookbank**, **S.P.B.A.**, **Station Poultry**  
**Merced**, **Hedon**, **East Yorkshire**.

**R.I.R.** Cockerels, **February** hatched, well  
developed birds of specially good colour,  
**Merced** dam (**Measure's** direct), with winter  
cord of 68 (24oz. egg.), sired by son of  
**R. Boucher's** famous hen 37, the world's  
cord layer; 30s. each. (No **B.W.D.** on  
sire's farm).—**Mrs. Athol Stuart**, **M.S.P.B.A.**,  
**Waklands**, **Boxmoor**, **Herts**.

**BLACK LEGHORN Cockerels** (**Margeri-**  
**Merced**), April hatched; 10s. each. Specially  
selected, 15s.—**Miss F. M. Bradley**, **Mer-**  
**Merced**, **Knutsford**, **Cheshire**.

**Stock Cockerels**. Pure **WHITE LEGHORN**  
(**Padman**), **March**; 12s. 6d.; April, 10s. 6d.—  
**Francis**, 102, **Dunvegan Road**, **Eltham**,  
**S.E.9**.

**January**, **February** and **March** hatched  
**Cockerels**, **WHITE WYANDOTTES**, **Cam's**  
direct, 245-301, by 274; **LIGHT SUSSEX**,  
**Cook's** direct, 264-279, by 269; **WHITE LEG-**  
**HORNS**, **Cook's** direct, 284-288 by 293; 21s. to  
42s., carriage paid. Approval with  
pleasure. — **Palmer**, **Hillside**, **Swinton**,  
**Rotherham**.

**Early March Crowley-Boucher RHODE**  
**ISLAND Cockerels**, from registered pens;  
10s. each.—**Arnot**, **Chevening**, **Sevenoaks**.

**Stock WHITE LEGHORNS**, dam's 230 up-  
wards; sire's dam 260 24oz. eggs; from 10s.  
6d.—**Captain Heseltine**, **Ropley**.

### SPECIAL OFFER OF PEDIGREE COCKERELS.

**WHITE LEGHORN**, bred from **Cam's**  
famous **Grimley** winners, holding world's  
record for winter laying; dam's records  
223-256, winter records 79-96; 7s. 6d., 15s.  
each, according to age. Also few **Special**  
from hens with winter records 104-109; £1  
each; reduction on several; hatched **Febr-**  
**Merced**-April. Average weight of eggs 24-24oz.  
Carriage paid.—**Bealing**, **Jeamond Dene**,  
**Burgess Street**, **Bassett**, **Southampton**.

**BLACK LEGHORN Cockerels**, **March**  
hatched; **Margerson's** special pen direct;  
pedigree given; enquiries solicited.—**John**  
**Williams**, **M.S.P.B.A.**, 82a, **Cox Green**, **Dun-**  
**Merced**, **Bolton**, **Lancs**.

**RHODE ISLAND Red March Cockerels**;  
descendants of "Ruby Queen," and gold  
medal winners; 17s. 6d. each. **Barron's**  
**WHITE LEGHORN April Cockerels**; 12s.  
6d. each.—**Tompkins**, **Hutton Rudby**, **Yorks**.

**R.I.R. (s.c.) Cockerels** (**Golden's March**,  
1922), dark even chocolate throughout; well  
developed; 10s. 6d. Carriage paid. — 25,  
**Kluynecourt Gardens**, **Upminster**.

**WHITE LEGHORNS**.—**Pedigree Cockerels**,  
from 238-hen winter eggs 99; from 222-hen  
winter eggs 99; from 221-hen winter eggs  
100; £3 3s. each, or £9 the three, carriage  
paid. **Jubilee Game Cockerels**, £3 3s. each;  
**Jubilee Game Pullets**, £2 2s. each, to clear.  
—**E. J. M. Griffiths**, **Brackendene Poultry**  
**Farm**, **Frodsham**.

**BLACK LEGHORN Cockerels**, **March** and  
**April** hatched birds, from "Daily Mail"  
**Cockerel** (dam 294), mated **Margerrison**  
pens; 10s. 6d. and 8s. 6d.—**Sicklehatch Poul-**  
**Merced** Farm, **Horeham Road**, **Sussex**.

### BUFF ORPINGTON COCKERELS.

1922, from **L2** hens, sired by brother of  
**Thomas's** World's Record Hen, 343-egg; 20s.,  
30s., 40s. each.—**Wheatley**, **S.P.B.A.**, **Barn-**  
**Merced**, **Gloucester**.

**BUFF ROCKS**, **February** hatched Cock-  
erels, from 231-egg dam; from 15s.—**Smyth**,  
**Ripponden**, **Yorks**.

**Cockerels**, **BLACK MENDELS** (**Smart's**),  
**BLACK LEGHORNS**, **BUFF ORPINGTON**.  
Write for particulars. — **Barton**, "Anna-  
dale," **Long Eaton**.

**MISS HASLER**, **Little House**, **Frinton-on-**  
**Merced**, has a few **Cockerels** for sale from her  
special hen, with yearly record 281; three  
winter months 87. **February** hatched, fine  
birds, two guineas each; **March** hatched,  
from records of 280, 260, and 250, from one  
guinea; reduction on several.

### BREEDING PENS.

10 **PEDIGREE WHITE LEGHORNS**, April,  
1921; trap-nest records to date 170-200, with  
early **March**, 1922, **Cockerel**, from my  
famous 275-egg hen; **Bentley Non-Such**;  
splendid pen; approval, £7. — **Rowland**  
**Cooke**, **Kirby Moorside**, **Yorks**.

Two **L2 1921 WHITE LEGHORN Hens** and  
**Pedigree Cock**, pure **Padman**; 30s. the  
pen.—**Miss Clark**, **Leafmore**, **Liss**, **Hants**.

### APPLIANCES.

#### TRAP-NEST FRONTS.

About 70 **Stanworth-Soule** Trap-nest **Fronts**  
for Sale. Cleaned, Disinfected. 2s. 6d. each,  
f.o.r.—**Severn Storr**, **Winnaway Farm**, **Har-**  
**Merced**, **Steventon**, **Berks**.

### ROOFING FELTS

"Superfelt," **Ashwell**, **Herts**.

### WIRE NETTING

Best galvanised. British only; stamp list  
—**Superfelt**, **Ashwell**, **Herts**.

### SUPERFELT

Builds vermin and draught-proof houses  
without boards; stamp for samples; testi-  
monials.—**Superfelt**, **Ashwell**, **Herts**.

### GLASS SUBSTITUTE

Samples, stamp. — **Superfelt**, **Ashwell**,  
**Herts**. Reduced.

### PEAT DUST FOR LITTER, POULTRY AND PIGEONS.

Also **GRITS**, Postage paid; 10lbs., either or  
both, 2s. Larger quantities very cheap;  
freight forward.—**McEvoy's Ltd.**, **Mount-**  
**Merced**, **mellick**.

### "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses,  
also for spraying roses, etc. Only one hand  
required for use. 3 pint and 1 pint size.  
All metal plunger, nothing to go wrong.  
Also **Perfume Sprayers**, suitable for sick  
rooms, etc. Handsome glass vessel, silver  
plated cap and pump. Also **Knapsack**  
**Sprayers**, for limewashing and creosoting.  
Houses done in one quarter the time. Can  
personally recommend.—**Particulars**, apply,  
**J. Stokes (Agent)**, **Eyecote**, **Leominster**,  
**Herefordshire**.

### GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s.;  
4 cwt., 26s. 6d. All have hinged lids. All car-  
riage paid, three or over 5 per cent. off list.  
—**Hudson**, **Sheet Metal Works**, **Patricroft**,  
**Lancs**.

For Sale.—**INCUBATORS**, 400 **PHIPPS**;  
used once; fitted; gas; £12 10s. 160 **HEB-**  
**DITCH OIL BURNING**; £6. Both hot-air.  
Two **DOZEN STONERS**, trap-nest fronts;  
used; 1s. 6d. each.—**E. M. Griffiths**, **Bracken-**  
**Merced** Poultry Farm, **Frodsham**.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests. Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

**COMPULSORY SALE.**—Hannaford No. 1 Intensive House, absolutely new; never used; cost £17, accept £14; carriage paid. Also Two Sectional Houses, 6ft. x 5ft., and 11ft. x 5ft., complete with floors; good condition; £10, carriage paid. Roll of New Wire Netting, 6 feet 2 inch mesh, 50 yards; £1; free on rail. — Hawkins, 51, Bannerman Avenue, Prestwich, Manchester.

For Sale.—42-Egg GLOUCESTER INCUBATOR, oil or gas, with self-turning tray; £5. HEBBSON COAL BURNING BROODER (1,000), chick size, used one season; £5, f.o.r.—Smyth, Ripponden.

### EGG BOXES.

24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.

**WORSAM and ABBOTT,**  
Pyrocroft House, Chertsey.

### DUCKS AND DRAKES.

Wilson's **BUNNER DUCKS** and **ANCONA** Fowls, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

**FAWN** and **WHITE BUNNER DUCK** 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

**DUCKLINGS** (12 weeks), from very heavy layers of large eggs; 10s. 6d. each.—Captain Heeseltine, Ropley.

Fawn and White **BUNNER DUCKS**, April, 1922, Simon-Hunter X Holdich 300 strain; 12s. 6d. each, carriage paid on six.—Pearson, S.P.B.A., Whitelimes, Cranbrook, Kent.

White **INDIAN RUNNERS**, 1922 hatched, 4 Ducks and Drake (Taylor's), Price £2 10s. Also Mated pen Roman Gander and two Geese, £3 10s.—Cartwright, Welland Poultry Farm, Seaton, Uppingham.

Fawn and White **BUNNER DRAKES**, April, 1922, hatched, from flock averaging 216 eggs; 7s. 6d. each, carriage paid.—Turnill, Eye, Peterborough.

Few exceptionally fine April, 1922, **WHITE BUNNER DRAKES**, from high record trapped ducks; 15s., 17s. 6d. each. Approval, carriage paid.—Mrs. Cooke, Bungalow, Kirby Moorside, Yorks.

A number of **FAWN** and **WHITE INDIAN BUNNER DUCKS**, 1922 hatched; also unrelated Drakes (Upjohn-Shaw), three to five months old; 12s. 6d. each.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

**NYE** and **SON** offer Pedigree **FAWN** and **WHITE BUNNER DRAKES**, from their strain, which produced world's record layers; 408 eggs in 411 days, etc.; from 10s. 6d. each. Inspection invited.—Shoreham-by-Sea.

**B.O. DRAKES**, five months old, Cook strain, from pen averaging 160 eggs in first six months; laying; £1 each, c.p.—Box 152 "Eggs," 94, Farncombe Street, London, S.E.16.

**WHITE INDIAN RUNNERS**, 1922 hatched; Four Ducks and Unrelated Drake (Seymour-Shaw); £2 10s. Also Drake (Harrison-Bell); 12s., carriage paid.—Atkinson, Hillside, Beech, Alton, Hants.

Nine **WHITE BUNNER DUCKS** (Taylor's), £3 10s.; must sell through removal, or Exchange Breeding Hens, Leghorns or Rhode Islands. — L. Snow, Uphill, Ponsworths, Ashburton.

### "GOSLINGS."

Well-grown, April hatched, Goslings, from Good Layers, from 12s. 6d.—Hayes, Four Marks, Nr. Alton.

### PIGEONS.

**UTILITY PIGEONS**, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Colehill, Wimborne.

### RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

### FOODS.

#### OYSTER SHELL.

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

### GRANULATED CHARCOAL.

Guaranteed Quality, half-cwt., 12s.; one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

Real Quality. **LAYING MASH**, **FATTENING MASH**, **MOULTING MASH**, **FISH MEAL**; used by experts; 21s. cwt.; 12s. 6d. half-cwt., carriage paid. — Market Corn Stores, Teall Street, Wakefield.

### SPECIAL VALUE IN POULTRY FOOD.

**GOOD OLEAN WHEAT SCREENINGS**, 11s. per 112lbs. Guaranteed Sussex Ground Oats, 17s. per 112 lbs. Bags Free. Carriage forward.—Marland and Co., Poultry Food Millers, Mossley, Manchester.

### DERBYSHIRE LIMESTONE GRIT.

3s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

**NITROPHOS PURE FISH MEAL**. Offer Two Weeks Only, 18s. cwt.; 1 cwt.—Corn Stores, Teall Street, Wakefield.

### MISCELLANEOUS.

**F. JOERGENSE**, Specialist and L. Breeder of Crows. Stock Birds, P and Chicks. — Kennylands, Emmer Green, Reading.

Strong, Vigorous Early-March, 1922, **RED Boucher-Crawley Cockerels**, and **W. WYANDOTTE** (Barron-Cooper) kerels. All of fine type and colour, from high record hens. 20s. each. a few 1921 Breeding Hens, with good records, 10s. each.—Philip Goodwin, "The span," Cheadle Hulme, Cheshire.

**PULLETS**, April and May hatched, 6d., 15s. each. Black, White, Brown horns, White Wyandottes, R.I. Reds, Rocks, March and April Cross-breds, 9s. 6d. **DUCKS AND DRAKES**, Buff Orpingtons, Runners, Aylesbury, 10s. 6d., 12s.—Mrs. Wilson, M.S.P.B.A., Minors Farm, Denholme, Bradford.

### FARMS FOR SALE. BETWEEN DEAL AND WALMER.

Capital Poultry Farm of 9½ Acres (mostly pasture), known as Moncrieff's Poultry Farm, Little Mongeham, near Deal. Small Cottage Residence, prolific orchard, full range of Hen Houses, 600 head Pure-bred Poultry (all as a going concern at a Low Reserve, with vacant possession). For Sale by Auction at Royal Fountain Hotel, Canterbury, on Saturday, September 23rd, 1922. Auctioneers, John Barker and Co., Ltd., 18, Adam Street, Strand, London, W.C., and Kensington, W.

FOR SALE, Good 4-room Residential Cottage and 12½ Acres Land, Freshwater, good well; fruit trees; suitable pig and poultry; off main bus route, Canterbury, Folkestone. Price, £950 or near offer. Vacant possession.—Apply, Horrocks, Ltd., Breach, near Canterbury.

**REV. SEYMOUR SHAW**, Wareham, Dorset, moreland, can offer Young Stock of good quality at much reduced prices. White Leghorns, Wyandottes and Runner Ducks (all colours). Records to 269. Approval.

### EDENMORE POULTRY FARM, HOOK, HANTS.

**WHITE WYANDOTTES**, large eggs, big birds, splendid records and stamina. The Birds, all with individual records, to make room for young stock. Cockerels, by one of Cam's Supremes, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free from season from any form of diarrhoea, or other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices apply to Brig-General Macconchy, Edenmore, Hook, Hants.

**WHITE ORPINGTON ONLY.**

For prices and particulars of our stock.—Manager, Westridge Egg Wotton-under-Edge.

Stock Cockerels, WHITE WYANDOTTES, March hatched, from Rodwell's; sent on approval; deposit with only 10s. each; worth 30s. Also W. LEGHORN Chickens, six weeks; 35s.; bargain.—A. F. Edis, X.L., Lead, Nelson.

ORPINGTON, 1921 Hens; 8s.; mostly Unrelated Cockerels; March; 13s. Sirely Cook's (Cray) strain; free — Miss Turner, Westbrook, Godal.

WYANDOTTE Pullets, from winners of 6 Philadelphia North-American International Egg Laying Competition; pedigree applied; £1 each. Cocks, brothers of £1 each. INCUBATOR, Tamlin, Nonpareil. — Grayson, Gorse Hill Farm, Wellingore, Lincoln.

of Agriculture. Pen WHITE LEG-8 (12) for sale; large egg strain; lay-bargain, £3 10s. 0d. Also Waverley of Poultry, brand new, 30s. 10 March April hatched, WHITE WYANDOTTE; direct from Tom Barron's; pedigree; beauties; £6 5s. 0d., carriage —Tom Redfearn, M.S.P.B.A., Middle-Teesdale.

WHITE INDIAN RUNNER Drakes: five from same pen as first and second Utility Duck Class, Winchester, being the second prize winner, for Sale exchange with White Runner Ducks or eggs; good laying strain. Also for sale orn Cockerels, 4½ months, from over rain. What offers? —Capt. Cochrane, Cuddy, Ropley, Hants.

**BARBERY POULTRY FARM, DOCKBRIDGE, HANTS.**

and 1921 Hens for Sale, WHITE WYANDOTTES, RHODE ISLAND REDS, 10 LEGHORNS, and WHITE LEG-8S; 5s. to 10s. each, according to age record. All with records from 175 to Individual records supplied. Stock eggs of above breeds. Prices on application.

**WHITE LEGHORNS, BARRON'S PEN 1.**

purchased from Mr. W. Barron half a pen and half his "Special Pen A," now offer you Pullets and Cockerels same. Prices from 15s. Pedigrees and details on application. — The Dales Poultry Farm, Syston, Leicestershire.

**PUPILS.**

ELTY POULTRY FARMING SCHOOL, x-Bourton, Som. Principal: Langdon-mas, F.B.S.A. (by exam.), large county use, outkirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence

There will be Vacancies for Resident Pupils in October on a Poultry Farm in North Devon. A new plant is to be erected on up-to-date lines this winter, which will offer special experience.—For particulars and interview by appointment, apply, Miss Baldwin, Pasadena, Golders Green Road, N.W.X1.

**WELLINGHAM HOUSE POULTRY FARM.**

Miss Malcolm trains lady pupils in all branches of poultry farm; extensive trapping, breeding, commercial egg and table bird branches. Latest Scientific Feeding Experiments as introduced at recent Harper Adam's Conference. Course begins October.—Ringmer, Sussex.

Captain Weir can receive Learner on Cotswold Poultry Farm. Moderate terms.—Write, Weir, Wotton-under-Edge.

Vacancy for Sole Pupil on Modern Commercial Egg Farm, Sussex. Live out. Only those really keen and prepared to work need apply. Satisfactory personal references required.—Box 151, "Eggs," 94, Farncombe Street, London, S.E.16.

**WANTED. PULLETS.**

Wanted, Pure 1922 Pullets, Reds, Wyandottes, Anconas, Leghorns.—Lumb, Fairfield, Hebden Bridge.

WANTED to Purchase Second-Hand 1,800 Egg Incubator.—Apply, Estate Office, Leighton, Iron Bridge, Shropshire.

**MISCELLANEOUS.**

WANTED EGGS. 100 dozen weekly, unfertilized; not more than four days old. Wanted for high-class trade.—E. Lindley, Woodhouse Mill, Sheffield.

**COMMERCIAL POULTRY FARM.**

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Full test investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, YOUNG COCKERELS (heavy breeds), for fattening; cheap.—Particulars to Daintree, Wye Lodge, Ashford, Middlesex.

Wanted to Purchase or Rent POULTRY FARM in Home Counties, West or South of England. For from about eight hundred to a thousand birds, with or without stock. Small house, about ten acres of land or more.—Reply with full particulars and price to Box 145, "Eggs," 94, Farncombe Street, London, S.E.16.

**POST REQUIRED.**

Ex-Service Man, age 23, desires post on Poultry Farm, 5 years' experience, Utility Poultry, Breeding, Rearing, and Feeding for Eggs, capable of building all types of Poultry Houses, etc. Would build up farm from start if required.—Write, stating wages offered and duties, to Box 148, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted to Rent, HOUSE, with at least four bedrooms, and two or more acres of land (grass or arable). — Achurch, York Villa, Sandy, Beds.

**SITUATIONS WANTED.**

PRACTICAL MANAGER, pedigree utility poultry farm, age 30; three years' practical scientific experience; also disease inoculation. Require cottage; modern conveniences; wife, two children.—Box 155, "Eggs," 94, Farncombe Street, London, S.E.16.

The HEAD POULTRYMAN of Ellis Park Poultry Farm, Brede, Sussex, is leaving shortly owing to sale of the above farm, and desires position of trust.

Board and Lodging in return for service on Poultry Farm by young public school man; willing to work; lately been ill; impossible to return to previous employment.—Apply, Lady Almoner, St. Thomas's Hospital, for further particulars.

**PULLETS.**

LADY PUPILS.—There will be Vacancies for a few Resident Lady Pupils on Poultry Farm in North Devon in October. A new plant is to be erected on up-to-date lines this winter, which will offer special experience. — For particulars, apply to Shepherd, Rhualt, St. Asaph, North Wales.

Vacancy for PUPIL on modern poultry farm in Sussex highlands; premium.—Box 154, "Eggs," 94, Farncombe Street, S.E.16.

*Passing it on.*

You tell your friends you have something to sell and they tell others. Thus sales are sometimes made.

But think of the number of persons an advertisement in "Eggs" will tell of your desire to sell something which they desire to buy. The result is positive.

⊕

**"EGGS"**

**CLASSIFIED ADVERTISING COLUMNS TELL ALL.**



**Mrs. PIERCE-GROVE, N.S.P.A.,  
N.S.P.S., STOKE COURT.**

Breeder Utility White Leghorns and White Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pens.

FOR SALE.

WHITE LEGHORN COCKERELS.  
WHITE WYANDOTTE COCKERELS.

Early February and March hatched, splendid, well-matured, and vigorous birds, bred from my own well-known strain 1921 hens, mated to magnificent cockerels (proved splendid breeders), imported direct from Solly's famous egg farm in British Columbia. These cockerels guaranteed from dam 280 specially large egg.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best, 3,000 Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply to The Earl of Eltham, Stoke Court, Stoke St. Mary, Taunton.



**The  
S.P.B.A. BADGE.**

Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN,  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

**PEDIGREE BRED-TO-LAY**

1022 PULLETS.  
WHITE LEGHORNS.

Dam's Records (two years), over 400 24 to 24 oz. eggs.

Sire's Dam, 287 24oz. egg by 295.

MARCH: 25/6, 27/6.

APRIL: 22/6, 21s.

MAY: 15/6, 12/6.

Limited Number of Pullets are offered of my Well-known Strain, and of Exceptional Quality.

Early Application Advisable.

STOCK COCKERELS, Trap-Nested Hens and Pullets of the finest breeding in White Leghorns, S.C. Rhode Island Reds, and S.C. Anconas at reasonable prices.

**ROWLAND COOKE,**

Keldholme Poultry Farm,  
KIRBYMOORSIDE, YORKS.

**JOHN A. BETTS,**

Manor Poultry Farm, Hampstead Norris,  
Newbury.

Once again Offers for Disposal  
EGGS AND STOCK BIRDS, from his  
PRIMA LAYING STOCK.  
SPLENDID SELECTION OF COCKERELS  
and 1921 MATCHED HENS.

in following breeds at 15/- each.  
If not shipped in three days birds will be  
exchanged or cash refunded.

Cross Langshans, Sal. Faverolle, Houdan,  
White Wyandotte, Silver Campine, Ancona,  
Light and Speckled Sussex, R.I. Red, R.C.  
and S.C. Black, White and Brown Leghorn,  
Buff and White Orpington.

Buff and Barred Rocks and Minorcas,  
Eggs, 8/- per doz.; 45/- per 100. Guaranteed  
90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-  
Campbell Ducks, Eggs 9/- doz. Drakes, 15/-  
each.

White Runner and Fawn Runner Ducks.  
Eggs, 8/- doz. Drakes 10/- each.

All Goods carriage paid to any part of the  
British Isles. LIST FREE.

**GOOD REASONS  
WHY YOU SHOULD  
SUBSCRIBE TO  
"EGGS."**

1. It is published not for financial gain, but solely in the interests of the Poultry Industry.
  2. The Council of S.P.B.A. only desire most working expenditure. They have no shareholders clamouring for dividends to face.
  3. Consequently they cannot afford to refuse and refuse to accept advertisements except from firms of established reputation upon whose goods they can confidently rely.
- Come then and share the knowledge.  
Help us to help you.

**"EGGS"**

can now be obtained from all Newsagents, and we suggest that anyone, who is not already a subscriber, requiring copies regularly, should fill up the following form and hand it to their Newsagent:—

To M.....

Please supply me with a copy of "Eggs" every week until this order is countermanded.

Name.....

Address.....

**NOTICE TO NEWSAGENTS.**

If any difficulty is experienced in obtaining "EGGS," please write to the Editor, The Beeches, Rudgwick, Sussex, giving the name of your Wholesaler. Postage will be refunded and arrangements made for you to be supplied.

Copies can always be obtained from the following Wholesale Newsagents:—

Messrs. W. H. SMITH and SONS, Strand House, Portugal Street, W.C.1. Messrs. JOHN MENZIES and CO., LTD., Wholesale Agents, Glasgow.

Messrs. JOHN HEYWOOD, LTD., Wholesale Newsagents, Deansgate, Manchester, and St. Bride Street, London, E.C.

Messrs. HORACE MARSHALL and SON, Temple House, Temple Avenue, London, E.C.4.

### THE CREAM OF STOCK.

March—April, 1922, WHITE LEGHORN PULLETS laying or thereabouts.  
ams, pure Padman, flock average 184. Sires, direct Warwick Rogers, dams well over 200.  
ot culls, real genuine value, at 25/- EACH. Carriage paid. Approval.

## JACK UNDERWOOD, S.P.B.A.,

RELIABLE POULTRY FARM, Sutton Bonington, LOUGHBOROUGH.

### & J. PARSONS,

#### Poultry Farm, Musbury DEVON.

ers of the Highest Class Utility White dotes and White Leghorns and con Winners in the various laying comons. Specialist Breeders of High ree Cockerels.

es of Extra Special Cockerels, bred high record hens, and excelling in and purity of colour. Three to Five as each.

Excellent Birds, bred from individual hens at

**25/- EACH UPWARDS.**

urther Particulars on Application.

### G. R. PINDER, M.S.P.B.A., N.U.P.S.,

Offers

A Limited Number of BREEDING HENS in WHITE LEGHORNS.

WHITE WYANDOTTES.

ALL are Guaranteed to have L2 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. Dottes. R.I. Reds and L. Sussex. Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Linndsey Poultry Farm, Carlton, Louth. Lincs.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from 40/-
1921	12/-
1920	10/-
1919	6/-

Specially Selected Cockerels from 6/-

"Phone:— 6 Chaddleworth. Grams:— "Sonimor, Leckhamstead."

# EGG FARM

LECKHAMPTSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED FARM ON EARTH OR AS FAR AS WE KNOW ANYWHERE ELSE

OUR POPULAR PRICE LIST AND OTHER PARTICULARS COST NOTHING

Mention "EGGS" when replying to Advertisements.

**V. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
Near SOUTHWELL, NOTTS.  
Breeder of High-Class Utility Poultry.

all Pullets Trap-nested. Stock and Chicks various ages—in White Leghorns, White Irpingtons, Light Sussex, Anconas (s.c.).

Inspection Invited. Cash or Deposit.

**GET THIS**

Catalogue of remarkable values in joiner-made Poultry Houses and Portable Buildings. Houses complete—proofed with best creosote, locks, bolts, good quality rubberoid felt covering on roof.

No Extras. Write now.

**R. SLIMMARD, Dept. M., St. Mary's Road, OXFORD**

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

	per cent.
Moisture	8.73
Oil	60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
Mineral Matter	8.38
	100.00

Nitrogen including Sand 7.36 .06

### OSSIFIED YEAST.

Analysis.

	per cent.
Moisture	6.86
Oil	12.22
Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
Ash	21.04
	100.00

Containing Nitrogen 6.36  
Phosphate of Lime 18.88  
Sand and Silicious matter 0.33  
Total Food Units 150

### PRICES:—

Dried Yeast, 26/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.  
10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

# MARMITE

The remarkable Yeast Extract which gives such startling results when fed to growing chickens, and also to pullets which are slow in coming on to lay.

See correspondence columns.

1-lb. 14-ozs. Carriage Paid, 6s 8d.

**Mrs. RAINE,**  
Kelsham Poultry Farm,  
HEADCORN, KENT.

# **PALMER'S PURE FISH MEAL.** As used by the Ministry of Agriculture, and also the "Daily Mail," N.U.P.S. Bentley, Harper-Adams, and Munster Laying Competition

Dear Sir,—I cannot claim to have used every other make of Fish Meal, but I have tried a good many, and am satisfied that your Meal possesses that something "different," placing it in an altogether higher category than other makes. Apart from its beneficial effects on the egg-return and health of the birds, it keeps so wonderfully well. I am moved to write in this vein because I have reared about a thousand R.I.R. Chickens and White Runner Ducks this year, some of which had your Fish Meal, while others did not. The former made very much better progress than the latter and can be picked out quite easily at the present time.

Leysdown, Kent.

July 22nd, 1922.

(Major) E. W. GREGORY.

£16 per ton, £8 2s. 6d. per  $\frac{1}{2}$  ton, £4 2s. 6d. per  $\frac{1}{4}$  ton.

Carriage Forward from Hull.

22/- per cwt., 12/- per  $\frac{1}{2}$  cwt., 6/9 per  $\frac{1}{4}$  cwt.

Carriage Paid England and Wales and to Ports.

FISH GRAINS THE SAME PRICE.

CHICK FOODS  
LAYING MEAL  
SUSSEX GROUND OATS  
FLINT  
LIMPET

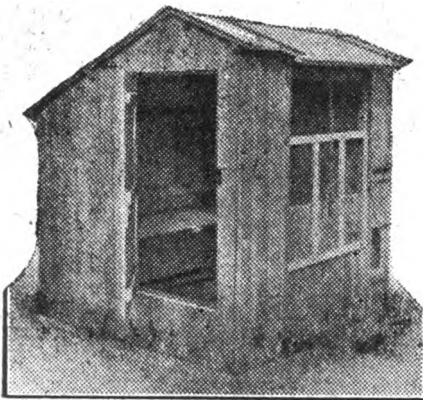
BISCUIT MEALS  
WAFFER MEAL  
PURE TONIC SPICE  
COCKLE  
OYSTER

OYSTER and MIXED SHELL.

Send a postcard for Samples and Literature to—

**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY.**

## The 'QUENIBOROUGH'



A most Useful Poultry House, well and substantially built. Complete. No Extras.

5ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6  
5ft. x 5ft. x 6ft., £7/0/0. Floor 21/-

5 percent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT. A., QUENIBOROUGH, LEICS.

## TWO SPECIAL OFFERS.

**BEST ENGLISH MILLING WHEAT.**  
(Not Off Corn). *Grown on my own Farms.*

Direct from Farmer to Consumer.

**14/6 CWT. £14 TON.**

FREE BAGS. FREE ON RAIL. CHEQUE WITH ORDER.

About 300 Surplus 1922

## PURE BRED COCKERELS.

WHITE LEGHORNS.  
RHODE ISLAND REDS.  
S.C. ANCONAS.

**6/6 75/- Doz. £30 100.**

*Hatched and Reared on my Farm.*

Please Mention "Eggs."

**ALEXANDER BROWN, Hill Farm, Hatfield Heath, HARLOW, ESSEX**

Telegrams: Browns, Hatfield Heath (two words).

If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
The Largest British Mutual Life Office. **AUSTRALIAN MUTUAL PROVIDENT SOCIETY.** (A.M.P.) Established 1848.

ASSETS	£48,000,000	NEW ORDINARY BUSINESS for 1921	£28,000,000
ANNUAL INCOME	£7,000,000	TOTAL ORDINARY ASSURANCES IN FORCE	£137,000,000
PURELY MUTUAL. ALL PROFITS BELONG TO POLICY HOLDERS.		EVERY YEAR A BONUS YEAR.	

Cash Surplus (Ord. Dept.) Divisible, 1921, £1,000,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War  
London Office: 73-76, KING WILLIAM STREET, E.C.4. W. C. FISHER, Manager for the United Kingdom.

## RHODE ISLAND REDS.

**MISS N. B. MADDISON, Dane Hill, Sussex.**

WINNER of the S.P.B.A. and "Daily Express" Laying Test.

**FIRST OUT OF 100 PENS.**

**SILVER CUPS, MEDALS, AND OTHER PRIZES GAINED.**

A few excellent BREEDING PENS for sale; also COCKERELS and PULLETS.

**ALL TRAP-NESTED Pedigree Utility Stock.**

# Day by Day in every way

## your POULTRY

you better and do themselves better  
IF YOU USE THE

## VENN-CARR

Automatic Dry Mash Hopper  
Automatic Scattering Corn Feeder  
Drinking Fountains  
Poultry Houses, etc.

They make poultry keeping pleasanter and  
without tying you to the home.

For the professional, as others, they save  
you therefore save you money, enabling  
you to give more time to that very necessary  
item in successful Poultry Farming.

DETAIL.—They cut your Feeding Cost 25%.  
Write for Illustrated Catalogue, post free.

EVERYTHING SOLD WITH A GUARANTEE.

**VENN CARR, DEPT. 8.**  
Maidstone Poultry Farm Appliance Works,  
Medway Street, MAIDSTONE.

## NOTE THESE PRICES!

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in relation  
to the food you now use.

### POULTRY FOODS

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

### MEALS

Maize Meal (fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Barley, Oat Feed, Barley Meal, Biscuit Meal (Poultry), Service Meal (fine), Cockle Shell, Flint Grit, Mixed Grit, Pure Oyster Shell, in K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMICAL QUALITY FOODS** to-day.  
Order through **Secretary, S.P.B.A.**, and get your discount.

The **Service Food Co.**  
VICTORIA MILLS  
GRIMSBY

## Spring-Time All the Year Round

**FUL-O-PEP Dry Mash** (Laying grade) contains all the food values that a hen would find for herself in the Spring-time (when eggs are plentiful). It is the result of years of scientific research and tests by the world's greatest cereal experts.

It is the feed that makes the **FUL-O-PEP** way so wonderfully fruitful in egg production. The Mash is always before the birds. The more they eat the more they lay, and yet they cannot over-eat.

Write for a free copy of our **FUL-O-PEP Year Book** (Guide & Calendar), and you will be at once enrolled a member of our **Free Advice Bureau**. State your difficulties and our **Poultry Expert** will gladly help you.

### GROWING MASH.

For pullets till matured or six months old. This food has been found to produce more pounds of gain in weight on less feed than any other feed on the market.

### SCRATCH GRAINS.

The highest quality "scratch feed" on the market—contains corn, wheat, buckwheat, barley, sunflower seed, etc. Just right for the hens' "upkeep."

### CHICK FEED.

A most carefully blended feed, comprising oatmeal, wheat, corn, etc. Given the **FUL-O-PEP** way, it ensures the life of almost every chick hatched.



# FUL-O-PEP

POULTRY FEEDS

QUAKER OATS Ltd.

Finsbury Square, London, E.C.2.

## NATIONAL LAYING TEST, 1922-23.

Will commence 1st November.

Entries close 11th September.

### EXTENDED CLASSIFICATION.

**10 SECTIONS FOR PULLETS.**  
**6 SECTIONS FOR DUCKS.**  
**19 SILVER CUPS AND TROPHIES.**

Also Gold, Silver, and Bronze Medals  
in each section.

For particulars and Entry Forms  
apply to:—

Hon. Sec. National Laying Test,  
G.E.R. Farm,  
Bentley,  
Suffolk.

## "The Present Position."

Well, what's wrong with it?

Isn't the price of Eggs going up and the price of Feeding Stuffs going down?

Everyone knows about the price of eggs, and here is proof positive about feeding stuff:—

**New English Wheat, 12/6 cwt., £12 ton.**

Newman's Poultry Mash (still further reduced), 14s. cwt., £13 10s. 0d. ton; both bags free and carriage forward.

Remember, Newman's Poultry Mash can be fed **WET OR DRY** and to Ducks and Chicken (in the latter case diluted with bran or clover meal) as well as poultry.

Cut out that longitudinal expression: Grit your teeth and carry on.

We'll Help You.

**FRANK SHEARN & CO., Ltd.**  
**MIDSOMER NORTON, SOM.**

'Phone 51.

Poultry Breeders. Vendors of all kinds of Poultry Goods.



# HEBDITCH

**LOOK AT THAT  
POULTRY HOUSE**

**The Price is only**

**£3 7 0**

## THE "DERWENT"

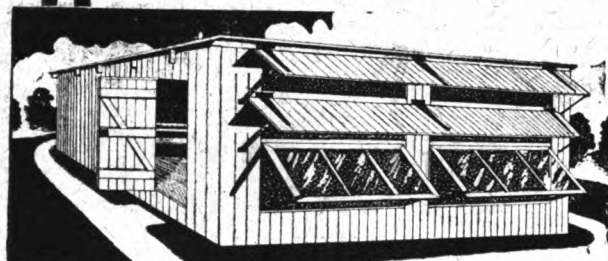
A compact, neat and attractive poultry house, slightly raised from the ground. It is built of best 3-in. planed, tongued and grooved and V-jointed Red Deal Boards, and provided with good press lock and key, strongly hinged door, up and down sliding shutters, two strong perches, and nest boxes. Sent out in sections with screws for erecting.

Size: 6ft. long, 4ft. wide, 5ft. high from ground.  
No extra charge for floor.

**Price £3 7 0**

If with Nest Boxes, £3 18s. 0d.

Carriage paid in England and Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/6 in the £ extra.



## THE "MARTOCK"

A first-class Intensive House made the Hebditch-way.

It is made in twelve sizes, and will accommodate from 12 to 600 fowls. It is essentially a house for those who specialise in winter egg production.

No. 1 costs

**£12 16 6**

Carriage paid England or Wales. Prompt despatch.

6ft. long, 10ft. wide, 5ft. high at back, 6ft. high at front. Made of 3-in. red deal board.

Floor, £2 17s. 6d. extra.

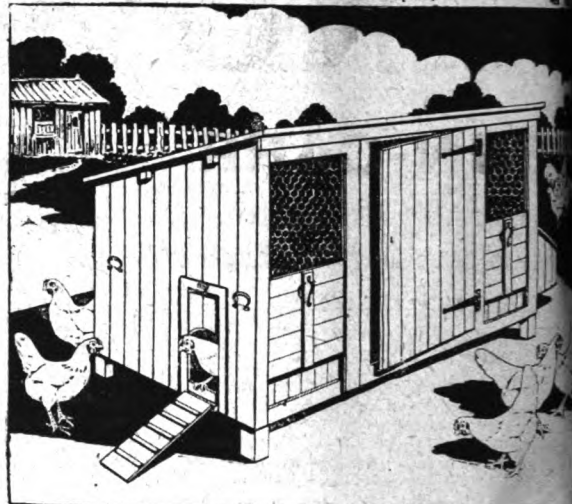
Pickled Preserolium by immersion, 1/6 in the £ extra. Send for the free catalogue, it tells you all about this splendid intensive house.

**THIS SPLENDID  
INTENSIVE HOUSE**

**is only**

**£12 16 6**

NO. 1 SIZE,



## THE "DREADNOUGHT"

It is built of 3-in. best Swedish deal boards, planed, V-jointed, tongued and grooved. Door hung with stout hinges and fitted with good press lock. Window covered with 1-in. mesh wire netting. Shutter suspended on strong chain, good ventilation is thus easily got. Two substantial perches, hen exit, cleats round attendant's door, 4 strong handles for lifting. Made in sections and sent out with screws for erecting. Carriage paid England and Wales. Quick despatch. For pickling with Preserolium by immersion the cost is 1/6 in the £ extra.

**Price only £2 6 0**

Three for £6 13s. 6d.

Six for £13 2s. 6d.

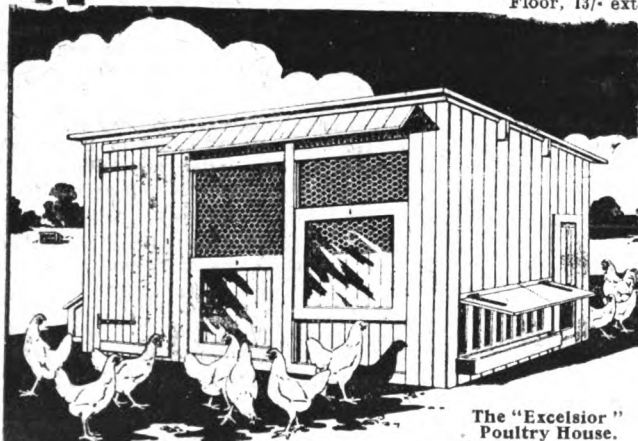
Floor, 13/- extra.

**THE  
"DREADNOUGHT"**

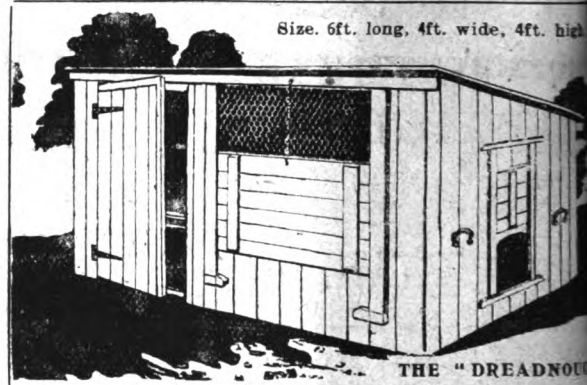
**for only**

**£2 6 0**

**is a Marvel of Value**



The "Excelsior"  
Poultry House.



Size: 6ft. long, 4ft. wide, 4ft. high

THE "DREADNOUGHT"

## THE "EXCELSIOR."

It is built of 3-in. tongued, grooved, and V-jointed Swedish deal. A wide dropping board is placed below the perches to keep floor clean for scratching and litter. A feeding trough at one end and

laying boxes at the other. No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 5ft. wide, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

Price, No. 1.

**£7 8 0**

Floor 26/6 extra.

Price, No. 2.

**£9 15 6**

Floor 39/- extra.

Carriage paid to any station in England or Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/6 in the £ extra.

**WHERE can you get  
Scratching Shed Poultry  
House equal to the**

**"EXCELSIOR" for**

**£7 8 0**

Send for Free Catalogue of Poultry Keepers' Requisites

**HARRY HEBDITCH, Ltd.,**

**THE POULTRY APPLIANCE WORKS,  
(Desk J), MARTOCK, SOMERSET.**

# NOW!

is the time for you to make a thorough test of MILKO Laying Meal. By accepting this advice, and ordering at once, you will get a large winter egg yield.

MILKO foods are the original milk foods for poultry. They supersede all others by reason of their being based on milk and carefully balanced by poultry experts. They do not contain spices or other harmful condiments. Only pure meals and specially prepared best quality milk used.

MILKO Laying Meal is the food you need right now. By regularly using this meal all the year round you will get increased egg-production, healthier birds, and better hatching and rearing results. A FOOD BASED ON MILK. . . . PROVIDING IT IS PREPARED IN THE PROPER MANNER. . . . GIVES BETTER RESULTS IN EVERY POSSIBLE WAY than one prepared on any other animal matter.

Get out of the rut. Be progressive. MILKO foods are the foods that are now used on many of our leading poultry farms. The owners of these farms run them for profit, they now use MILKO foods exclusively because it is the great profit getter. One large poultry farm has just placed an order for 4 tons of MILKO Laying Meal to be delivered every month. This fact speaks for itself.

Be wise . . . send an order for MILKO Laying Meal TO-DAY. The price is only 23s. per cwt.; 4 cwt. £4 8s.; 10cwt. £10 15s.

ALL CARRIAGE PAID.

A little extra money spent on MILKO foods is saved over and over again by reason of the wonderful results obtained.

If you are progressive you will start right now to use MILKO foods.

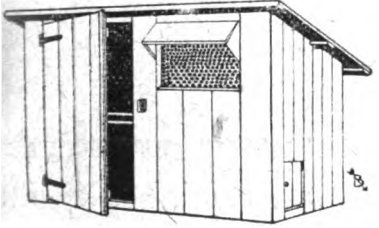
**MILKO FOOD CO.,**  
Fleet House, Fleet Street,  
LONDON, E.C. 4.

## LIGHT SUSSEX PULLETS.

Some Really High-Class UTILITY PULLETS. Jan. Feb. & Mar. Hatched  
Prices from 21/- each.  
Inspection invited.

**W. P. HARMER,**  
HADLOW-DOWN, SUSSEX.

36/6. F.o.r. Redhill.



Special Offer to "EGGS" Readers Only.  
Size, 6ft. long x 4ft. high x 4ft. wide.  
Best Material. Best Workmanship.  
1) Matchboard. Strong Framework.  
Complete Sections. Two Perches.  
FULL CATALOGUE ON REQUEST.  
Galvanised Corrugated Iron Sheets.  
Best Quality Heavy 20 Gauge, 27in. wide.  
... 2/6; 6ft., 3/-; 7ft., 3/6; 8ft., 4/-; 9ft., 4/6  
per sheet.

WRITE FOR OUR SPECIAL TIMBER PRICE LIST.

**the SURREY VALUE CO.,**  
BARLANDS RD., REDHILL. 'Phone 290.

"Eggs" gives to Advertisers and their goods a prestige and quality reputation that no other publication can give.

## PLANOK TRAPNESTS

The simplest and cheapest on the Market.

Made in sets of two, comprising two complete nest boxes and trap fronts.

10/6 per sample set, carr. paid.  
7/6 per 3 sets and more, carr. fwd.  
7/0 per 25 sets and more, carr. fwd.

These nests also supplied "knocked down" or in the flat.  
Every Fitting Provided.  
Multiples of 10 sets only.

10 sets and more, 6/0 per set, carr. fwd.  
20 " " 5/6 " "  
30 " " 5/0 " "

Fuller Particulars on Application.

**WORSSAM & ABBOTT**  
PYRCROFT HOUSE,  
CHERTSEY.

## BEST ENGLISH RINGS

These are NOT the Cheap Imported but English Made.



LARGE STOCKS HELD.



SPIRALS IN TEN COLOURS.  
Red, Green, Light Blue, Violet, Dark Blue, Yellow, Pink, Brown, Black, White.  
PLAT BANDS, in 10 plain colours, 6 strips. Aluminium, any Number and Year.

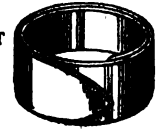
ALL ONE PRICE.

	500	400	300	200	100	50	25
Day-Olds	16/-	8/-	6/-	3/-	2/-	1/3	7/8
3 months	13/9	11/-	8/3	6/3	3/-	1/9	1/5
Half-Grown	15/-	12/-	9/6	6/-	3/6	2/-	1/4
Light Breeds	25/-	20/-	15/6	8/3	5/9	3/-	1/9
Heavies	28/-	21/-	16/6	8/9	5/3	3/3	3/-

All Subject to 5 per cent. Discount.  
An Extra 5 per cent. to M.S.P.B.A.  
Post Free.



FULL LIST POST FREE.



These are not the Imported, which are much too flimsy.

## VERMICIDE.

A most powerful Killer of Vermin and all parasite life, a good disinfectant for Incubators, Brooders, Houses, etc., etc.  
ONCE USED, ALWAYS USED.  
1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6; Gallon, 8/6.  
Carriage Paid.  
Less 5 per cent., S.P.B.A.

## PENETRAS.

FINEST PRESERVATIVE ON THE MARKET.  
Not the Ordinary so-called Orescote. 1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal. 40 gals. (or about), cask £2 10s. 6d. Tins free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

## FENCING STAKES.

Per 12. Pointed and Penetrated.  
4ft., 6/6; 5ft., 7/3; 5 1/2ft., 8/-; 6ft., 8/6; 6 1/2ft., 9/3; 7ft., 10/-; 7 1/2ft., 10/6.  
Less 5 per cent., and an extra 5 per cent. to S.P.B.A. All Carriage Forward.

## GALV. WIRE NETTING.

	34in.	36in.	48in.	60in.	72in.
1in.	17/2	24/5	32/7	41/7	48/9
2in.	10/6	14/3	19/-	23/9	28/6
3in.	7/11	10/11	14/6	18/2	21/9

Per Roll, 50 yards. Carriage paid orders 27.  
Less 2 1/2 per cent. and an extra 2 1/2 per cent. S.P.B.A.

## FINE BISCUIT MEAL.

As used on my own farm. Splendid Egg producer and doubles its bulk, 24/- cwt. Carriage paid.  
Reduction on ton lots.  
FLINT GIBB, 5/6 cwt., carriage fwd.  
OYSTER SHELL, 10/- cwt. carriage fwd.  
COCKLE SHELL, 7/6 cwt., carriage fwd.  
Less 5 per cent. and an extra 5 per cent. S.P.B.A.

## TRAP-NEST FRONTS.

One of the Simplest and Noiseless Traps on the market.  
4/6 each, post free. Six or more, 4/- each. Reduction on large quantities.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.,**  
The Leading Maker of Good Appliances in this country,  
Hamworthy Junction, Dorset.

We are EXPERTS in all kinds of  
GRAIN and MEAL for POULTRY  
FEEDING and for the PRODUCTION OF EGGS.

	per cwt.
	s. d.
CHAMPION MIXTURE .....	22 0
A.1 MIXTURE (with or without Maize) .....	20 0
X.B. MIXTURE .....	18 0
X. MIXTURE .....	17 0
CLIPPED OATS (Heavy) .....	20 0
CHAMPION LAYING MEAL .....	21 0
CHAMPION DRY MASH .....	21 0
CHAMPION CHICK FOOD, No. 1 .....	27 0
CHAMPION CHICK FOOD, No. 2 .....	27 0
CHAMPION DRY CHICK MASH .....	23 0
CHAMPION PULLETT MIXTURE .....	22 0
SPECIAL KIBBLED MAIZE .....	18 0

DISCOUNT:—6d. per cwt. for 5 cwt.  
and over; 1s. per cwt. for 10 cwt. and  
over.

For other Specialities see Price Lists.

Our own vans deliver in LONDON and  
SUBURBS DAILY in quantities of 7lbs.  
and upwards to meet the REQUIRE-  
MENTS OF ALL.

NO DUST OR WASTE. Mixed and Well  
Cleaned by Special Machinery.

Samples and Price Lists free on  
application to

**WILLIAM BRINKLER & SONS, Ltd.**

Pigeon and Poultry Food Dept.,

(3) CLAPHAM GRANARIES, LONDON, S.W.4

Telephone: BATTERSEA 211.

## West Mersea Poultry Farm, ESSEX,

Nr. COLCHESTER G.E.Ry.

### EXCEPTIONAL OPPORTUNITY.

#### Room Wanted for Young Stock.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 8s. 6d..  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records,  
etc., with pleasure.

## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. It is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th A.)  
Col. Hardy says:—"As regards chick rearing I have found the use of I Separated Milk very successful." ("Eggs," p. 221, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Butter will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK** 24/- per cwt.

In 200-lb. casks. Small quantities in lined bags.

Also for fattening:—

**SWEETENED CONDENSED MILK** 8/- per case of 48 tins.

**GENUINE SUSSEX GROUND OATS** 16/- per cwt.

Write for Particulars.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with Order.

Carriage Forward Heathfield or London

**CARR, MACDONALD & CLEVELY, LTD**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

### BEFORE YOU BUY

Allow me to Quote and Sample you for  
LAYING MEAL, SPECIAL GRAIN MIX-  
TURES, PREPARED GRAIN and ALL  
FEEDING STUFFS.

FOODS OF GUARANTEED QUALITY AND  
REPUTATION AT LOWEST MARKET PRICES.

SATISFACTION ASSURED.  
By Mailing your Requirements to

**W. H. FLOYD,**  
Poultry Food Specialist,  
King's Lynn, Norfolk.

BARNEVELDER PULLETS. Also  
Breeding Pens of 20-21 Bantams. W  
dotters.

LAKENVELDER. Sumatra, Polish,  
mouth Rocks, and all other Varieties  
Also all kinds of Water Fowl, F.  
Pheasants, White, Black Winged Blue,  
Specifer Pea Fowl, Partridges, etc.  
Threepence for Reply. Orders be-  
now for Eggs.

**G. VAN NECK, 199, Amsteldyk, Amsterdam**  
Many Testimonials as to Enormous Success

## W. A. BAINBRIDGE,

Keyneston Manor Poultry Farm,

BLANDFORD.

White Wyandottes. Rhode Island Reds (S.c.)

Light Sussex.

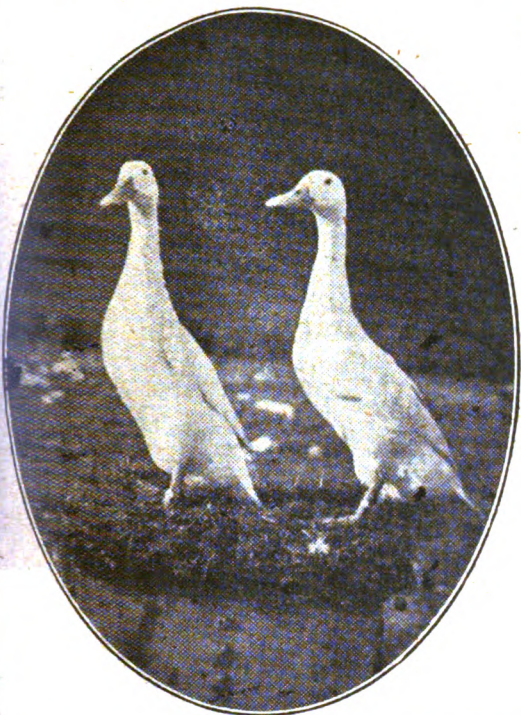
Sittings of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.

Only the VERY BEST supplied.

**THREE-MONTHS PULLETS.** Day-old Chicks. Cockerels  
from large egg, high record L2 Hens.



# Toe-Punched Cockerels from L<sub>2</sub> Hens—



**LIGHT SUSSEX. WHITE LEGHORNS.**  
 1922—March, 25/-, 20/-; April, 15/-; May, 10/- each.  
 Few Grand 1920 and 1921 Cocks from L<sub>2</sub> Individual  
 Record Hens, 15/- to 30/- each.  
 L<sub>2</sub> Leghorn Hens, 1920-Hatched, perfect condition,  
 17/6 each.

These birds are perfect Breeding Stock, and offer a valuable chance to anyone who secures them—only 20 left.

**WHITE RUNNER DRAKES** My "Many Egg" Strain,  
**KHAKI CAMPBELL** " 10/- to 30/-.  
 Reduction on 12 Birds. ALL sent carr. paid.

ILLUSTRATED CATALOGUE FREE.

"WHAT'S WANTED" explains how to get eggs in the Winter. 2/6 post free.

## Miss HARRISON BELL,

S.P.B.A., U.D.C. **WELWYN—HERTS.**

### ADMIRAL CAYLEY,

Lanarth, St. Kew Highway. Cornwall,

Offers the following:—

#### WHITE LEGHORNS.

6 Cockerels from his No. 1 Pen. 12 Cockerels from his No. 2 Pen.  
 3 Cockerels from his No. 3 Pen.

#### EXCHEQUER LEGHORNS.

8 Cockerels.

Prices from 12s. to £1 5s. 0d. Pedigrees Given.  
 Also some High-Class Breeding Hens, 1921 WHITE LEGHORNS.  
 Pedigrees 180 to 200. Prices: 10s. to 12s. 6d.

Early Application is advised.

### E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Disease.

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

PULLETS

TESTED BREEDING  
 HENS

STOCK COCKERELS  
 Guaranteed Pedigrees from  
 400 to 1,000 egg hens.

All ages.

Complete Trapnest Records

### MIDDLESEX OFFICIAL OPEN LAYING TEST.

Commencing Nov. 1st, 1922.

### VALUABLE PRIZES.

For full particulars and Entry Forms  
 apply

**HEARNE HOUSE POULTRY FARM,**  
 HAYES, MIDDLESEX.

#### PURE SWEET STERILISED BLOOD.

**RENTOX (Regd.)**

1 lb. bag sent post free for 1s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.,**  
 BORDENLEY STREET,  
 BIRMINGHAM.

TRAP-NESTING CARDS, 6½ x 12½ inches.  
 1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.  
 Trap-Nesting Record Books, 6/-.  
 Hatching Record Books, 7/6 and 11/-.  
 Stud Books for Fowls, 6/-.  
 Incubator Records, 1/3 doz.; 7/- per 100.  
 Backyarder's Complete Record, 8d.  
 Specimens Free.

**RIPPIN & BAKER,**  
 THE NEWARKS, LEICESTER.



## EGGS.

### AMERICAN OYSTER SHELL,

#### Special offer.

1,000 Bags each 112 lbs. Genuine American Oyster Shell.

Per cwt., 5/9. Free on Rails, Liverpool. Cash with order.

### THE BRITISH AMERICAN SHELGRIIT Co.,

Bank Chambers,

22, MARSH LANE, BOOTLE, LIVERPOOL.

Phone: 694 Bootle.

Telegrams: Poultry, Liverpool.

### "UTILITY" TRADE MARK POULTRY FOODS.

REAL BARGAINS.

Special Offers to S.F.B.A.

	per cwt. s. d.
1000 bags Manitoba Feed Wheat	11 0
500 bags American Earl Seed	10 0
500 bags Clipped Heavy Oats	11 0
500 bags Best Mixed Fowl Corn	12 0
500 bags Maize Gluten Meal	12 0
500 bags Best Quality Fish Meal	14 0
500 bags Fine Biscuit Meal	14 0
500 bags Best Sussex Ground Oats	15 0
500 bags Light Wheat	9 0
1000 bags Coarse or Fine Charcoal	14 0
500 bags Best Quality White Wheat Meal	13 0

F.O.B. Liverpool. Bags in. Cash Terms.

ARGYLE MILLS, Argyle St., LIVERPOOL.

Phone: 2586 Royal. Telegrams, "Emphatic." Established 1868.

## DR. J. H. BALDWIN

### SPRINGFIELD P.F. WIMBORNE, DORSET

ONLY THE VERY FINEST STOCK

White Leghorns,

White Wyandottes,

R. I. Reds (Cocks)

Bred from PENS of TESTED PARENTS  
and PENS headed COCKRELS held  
PROVED L2 Birds.

If you get them from "Homeatlast"  
it means SATISFACTION.

**ANCONAS, LIGHT SUSSEX,**  
and The Adjustable Trap-Nest Front  
(Prov. Pat.) Sample, 3/6.

**VICTOR P. WILLIAMS,**  
Homeatlast Poultry Farm, BEXHILL, SUSSEX.

Oyster Shell, English or American Graded - 7/-  
• Kent Blue Sharp Flint - 3/6

Free on Rail; Reduction 1 ton and upward  
Send 2 stamps for samples.

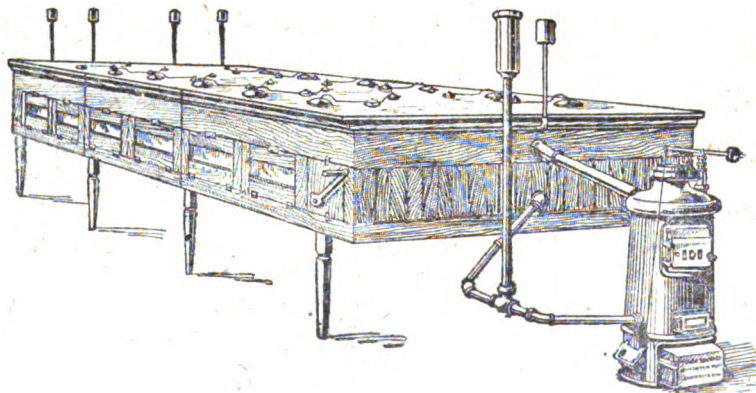
**F. G. BRANTON, Grit Manufacturer**  
GREENHITHE, KENT.

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the Incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.



Wednesday, September 20th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 12. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

**PEDIGREE WHITE RUNNER  
DUCKS.**

Bred and Owned by  
Miss HARRISON-BELL,  
Welwyn, HERTS.



**"WHITE LADY"**

Laid 218 Large Eggs  
in the  
National Laying  
Test.



# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony?

Letter No. 70.

Illawarra,  
Woodchurch,  
KENT.  
August 4th, 1922.

Dear Sir,—

I will take the five cockerels. I know that they are worth every penny you ask.

This extraordinary difference between this year's pullets and last, bred from the same mothers, but with your cockerels, this year and others the previous year, has to be seen to be believed.

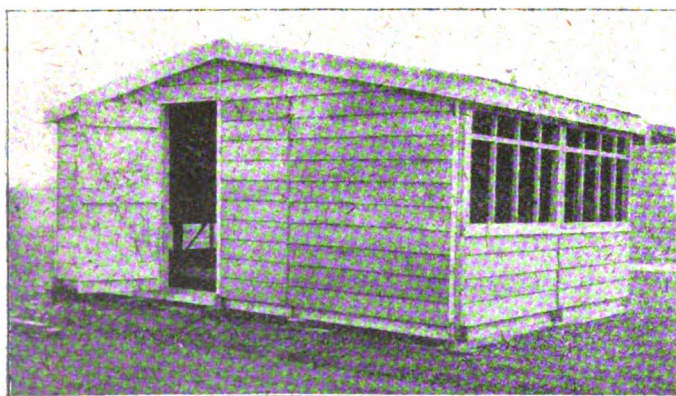
I have about 30 January pullets, offspring of your cockerels, which commenced to lay about eight weeks ago. Everyone of those that I have handled show a four-finger capacity between the pelvic and breast-bone.

Yours faithfully,  
H. VERDEN.

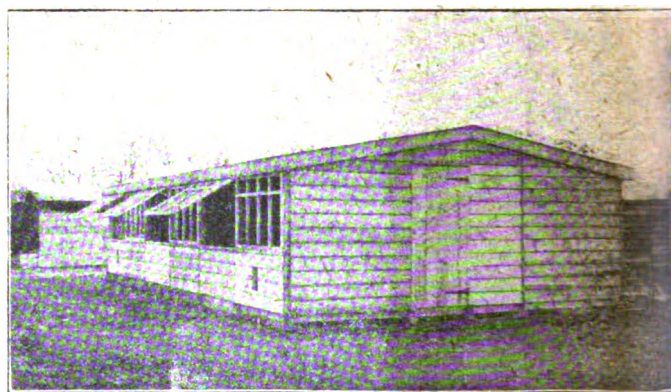
Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### EXTENSIBLE UNIT BUILDINGS.



Two Units—10ft. x 15ft.



Enlarged to Six Units—30ft. x 15ft.

### CONVERTIBLE SPAN-ROOF HOUSES (for Poultry and Domestic Use)

Above pictures show start with a Two-Unit House=10ft. x 15ft., which has been enlarged to Six Units=30ft. x 15ft. A section of the latter has been used as a Brooder prior to conversion—a portion for Rearing, another portion for Laying. All panels, doors, and sashes can be moved from eave to gable sides. This feature can be supplied to any desired depth, height, and length of house.

State full requirements when applying for data.

SPECIAL NEW DESIGNS FOR BREEDING PENS, ALSO FOR STRICTLY INTENSIVE WORK, ON NEW ENGLISH AND AMERICAN PLAN.

Members' Houses covered by Insurance against Fire, free of extra, for first 12 months.

PARTICULARS FREE.

**W. H. COLT, M.S.P.B.A., BETHERSDEN, KENT.**  
**M.N.U.P.S.,**

September 20th, 1922.

## EGGS.

### 22 PEDIGREE LAYING PULLETS.

On One Month's Approval.

**MODE I. REDS**  
 (Poultcher's) March  
 1st April hatched.  
 Dam's records 240.  
 1. Sire's Dam 291.

**WHITE WYANDOTTES** (Barrow's).  
 10-257. Sire son of  
 Wilson Beattie's  
 Snowball.



**WHITE LEGHORNS**, Dams 250 upwards,  
 sire's dam, Gilpin's 293-egg hen.

15/-, 21/- and 25/- each. Satisfaction  
 Guaranteed.

**Dept. C. GRAY POULTRY FARM, Ltd.,**  
 Sidcup, Kent.

### Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
 (BARRON.)

**W. LEGHORNS,**  
 (PADMAN.)

### Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
 Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
 Winter Egg Test.

Pedigree, Records and Particulars, post  
 free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

### GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
 about 28lb., 3s. 6d.; 2, 5s. 6d.;  
 3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
 canvas covered, 15s. All car-  
 riage paid. Cash with order.

**THE PEAT MOSS LITTER  
 SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
 Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.  
 COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY

1in x 4in. T.G.B.	7s. 6d.	1in x 5in. Sawn Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
1in. x 5in. T.G.B.	8s. 6d.	1in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
1in. x 5in. T.G.B.	11s. 6d.	1in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
1in. x 4in. T.G.B.	9s. 6d.	2in. x 1in. Battens	5s. 6d.	3in. x 6in. Battens	40s. 6d.
1in. x 5in. T.G. do.	13s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 4in. Weatherbds.	5s. 6d.
1in. x 5in. Sawn Bds.	7s. 6d.	2in x 3in. Battens	12s. 6d.	1in. x 5in. Do.	8s. 6d.

per 100 feet. CUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
 terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mill, SEAFORTH.  
 LIVERPOOL. Tel. 624 Waterloo.

### PRE-WAR PRICE.

12ft. x 8ft. Span-Roof Houses, with  
 windows, £9 9s. 6d., f.o.r.  
 8ft. x 6ft. x 6ft. high Lean-To Houses, with  
 4 windows, £5 5s. 6d., f.o.r.  
 Above built of 3 x 2 frame and 2 in.  
 T. and G. Boards.  
 Satisfaction guaranteed. Any design  
 quoted for. For one week only 2½ per cent  
 discount. Terms Cash with Order.

**J. C. ASPIN, M.S.P.B.A.,**  
 432, BLACKBURN RD., DARWEN, LANCs.

### TERRIERS.

Pedigree and Non-Pedigree Sealyham  
 Puppies for Sale.  
 Wonderful Ratters. Indispensable on a  
 Poultry Farm.  
 My dogs kill hundreds of rats yearly on  
 my farm.

Price from Two Guineas. Apply—  
**WHITENAP POULTRY FARM,**  
 Romsey, Hants.

## Do you Realise

the Value of a Poultry Food based on Milk? Perhaps you do. There are  
 thousands of poultry keepers who do not. MILK, provided it is supplied in  
 the proper form, is the finest food for young chicks and laying and breed-  
 ing stock obtainable. It is rich in VITAMINES, the essentials to growth  
 and health; it provides the bone and flesh-forming elements necessary to  
 maintain stamina and production; it is the greatest natural preventative  
 of disease to be found in natural and nutritious foods. Why do we hear so  
 much about infertility? Why do we hear so much about dead-in-shell, and  
 about the tremendous rearing losses experienced every year? These troubles  
 are due to over-stimulation of the breeders and incorrect feeding of the  
 young stock. Any scientist and any doctor will tell you that milk is the  
 finest of all foods for stock, but it must be given to them in the proper  
 form, carefully balanced with other invaluable ingredients which your  
 birds demand. There is only one food which furnishes the real elements of  
 growth and the real essentials to natural heavy egg production. That food  
 is MILKO, the original milk foods for poultry, the foods that are extensively  
 used on some of the best poultry farms in the country. All MILKO FOODS  
 have for a basis Best Quality Pure Powdered Milk—a very expensive food—  
 but one that "stands second to none" for rearing strong, healthy chicks  
 and heavy egg production. MILKO FOODS do not force. . . . they are  
 not stimulants . . . but complete meals, properly balanced by poultry  
 experts, so as to provide chicks, growing and laying stock with the right  
 elements they require throughout the different stages of their lives.

Your young pullets, if they are not six months old yet, need MILKO  
 GROWING MASH now. It is the best food for building fine sturdy bodies, and  
 provides them with the necessary stamina for heavy egg-production during  
 the winter months. Give your laying birds MILKO LAYING MEAL, the  
 greatest egg-producer ever offered to British Poultry Keepers. Now used on  
 many of the largest poultry farms in the country. Test these two foods for  
 yourself. You will never regret doing so, and we know that you will con-  
 tinue to buy MILKO foods in future. Note low prices—MILKO GROWING  
 MASH, 25/6 per cwt.; 4cwt., £4 18s. MILKO LAYING MEAL, 23/- per  
 cwt.; 4 cwt., £4 8s. All Carriage Paid.

GET A SUPPLY TO-DAY.

**MILKO FOOD CO.,**

(Dept. 2),

**Fleet House, Fleet Street,**  
**LONDON, E.C. 4.**



## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris, Newbury.

Once again Offers for Disposal EGGS AND STOCK BIRDS, from his PEDIGREE LAYING STOCK. SPLENDID SELECTION OF COCKERELS and 1921 HATCHED HENS.

In following breeds at 15/- each. If not approved in three days birds will be exchanged or cash refunded.

Creed Langshans, Sal. Faverolle, Noudan, White Wyandotte, Silver Campine, Ancona, Light and Speckled Sussex, R.I. Red, R.C. and S.C. Black, White and Brown Leghorns, Buff and White Orpington.

Buff and Barred Rocks and Minorcas, Eggs, 6/- per doz.; 45/- per 100. Guaranteed 90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-Campbell Ducks, Eggs 8/- doz. Drakes, 15/- each.

White Runner and Fawn Runner Ducks, Eggs, 8/- doz. Drakes 16/- each. All Goods carriage paid to any part of the British Isles. LIST FREE.

## BEFORE YOU BUY

Allow me to Quote and Sample you for LAYING MEAL, SPECIAL GRAIN MIXTURES, PREPARED GRAIN, and ALL FEEDING STUFFS.

FOODS OF GUARANTEED QUALITY AND REPUTATION AT LOWEST MARKET PRICES.

#### SATISFACTION ASSURED.

By Mailing your Requirements to

**W. H. FLOYD,**

Poultry Food Specialist,

King's Lynn, Norfolk.



THE GREEN-OLDIES MEAL PEOPLE

*If you want Autumn and Winter Eggs*

**Don't let your hens 'hang' in their moult.**

As soon as they have shed most of their 'old plumage' give them our GROWING or FEATHERING MASH for a few weeks; it may easily make a month or two's difference to their starting to lay again.

May we send you our September Price List.

**THE STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

## PURE SWEET STERILISED BLOOD.

### RENTOX (Regd.).

7 lb. bag sent post free for 1s.

Full Particulars on request.

MIDLAND CATTLE PRODUCTS, Ltd.,  
BORDERSLEY STREET,  
BIRMINGHAM.

## COCKEREL BOXES

21/6 each. Carriage Paid.

Every purchaser delighted. Send for our Catalogue giving full particulars.

**The Surrey Value Co. (Dept. 2),**  
Redhill. Phone 290.

## A REFLEX

British Laying "Strains" are the best in the world, and no "Strain" has so much more to make them so than

**Tom Barron's**

CATFORTH POULTRY FARM, nr. PRESTON

EGGS, 16/- PER 15.

Don't fail to see my list, as I wish to draw special attention to my 1922 Individual Stock Cockerels. They will cost later more than four times their value now. They are a cheap proposition for those who have room to bring them up with their own chickens.

Pedigree Stock Cockerels, Hens, Pullerets

Profusely Illustrated Catalogue and List sent on request. Postage 2d.

## OF PROGRESS.

**"Poultry Foods and Feeding,"**

ALSO

**"Chicken Rearing,"**

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6½d. Each,  
Post Free.

**"An Egg in Every Ounce."**

# CLOVER MEAL

FOR POULTRY.

"Klovers" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England.

**ROSSLYN & Co.,**

38, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, September 20th, 1922

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Beeches, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. **Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

### NEW BREEDS.

Of the making of new breeds, like the making of books, there is no end. We have Barnevelders, Marsh Daisies, Black Marias, Exchequer Leghorns, Jersey Black Giants, with a promise of a Buff Sussex, if only a Buff Male will materialise, an unlikely event without the assistance of an out-cross—say the Buff Leghorn. Added to the above we have a prodigious importation of Australorps, or Black Orpingtons from Australia, and there are one or two others, such as the Buff Medway.

Without the slightest desire to "crab" these new varieties, one may well ask, What has been the breeders's object? If it has been to evolve something better than the existing breeds of established reputation, it must be admitted that they have not been very successful. Not one of them possesses greater economic qualities than our Rhode Island Reds, Black or White Leghorns, White Wyandottes, or Light Sussex, not one of them supplies the "long-felt want," and to do them justice none of the breeders claim that they do. One cannot predict a future for any of them, for while it would be absurd to deny that they one and all possess economic qualities, there is nothing outstanding in any of them.

Yet surely the object of the individual who interests himself in the making of a new breed should be to evolve something which is better than any existing breed. Yet such an object is not apparent in any of the breeds enumerated above. It seems as if the breeder had nothing definite in mind. That he has been merely an opportunist, who has made the most of some chance occurrence. A good breeder would do so, but what we want is the breeders who can say "the

existing breeds are not ideal for the purpose, there is heavy loss on the surplus cockerels from the Leghorns. The Wyandotte's eggs are too small, the R.I. Red is difficult to breed to colour, and the Sussex is not suitable for a commercial egg farm. My object is to get nearer to the ideal."

Would the task be a very difficult one? We think not. Once the characteristics of this new breed were decided upon, we can see no reason why it should not be evolved in the course of a few years. We have expert breeders enough in this country to supply what is required if they once recognised what the defects of the present commercial breeds are. We have discussed or attempted to discuss the financial position of egg-farming in recent issues. It will be asked what bearing this has on the question of new breeds, or a new breed? On the present position none, on the future a great deal. There is not the least reason to be alarmed as to the future of commercial egg farming, but the margin of profit has never been a large one, and we can see no possible prospect of its becoming larger for some years to come. Therefore, it appears that a more economical breed than the White Leghorn is desirable, if not actually necessary. On a commercial egg farm there is a loss on every cockerel hatched. On most of them it is greater than it should be, and we contend that a breed could be evolved which would turn this loss into a profit, which would give equally good egg production, and which, upon its productive period was passed, would yield more than does the White Leghorn.

It will be said that the commercial egg farmer has not the time to devote to surplus cockerels. That will depend on the individual, and his appreciation of the position. With our newer knowledge of Nutrition the position may change considerably for the better, and, given a new breed which matures quickly, the surplus cockerel may be a source of considerable profit, instead of a serious loss. There should be a revival in the table poultry industry, and there should be co-operation between the fatterer and the egg farmer. If the surplus of the one could supply the needs of the other we should have an ideal combination. It would not involve an enormous amount of work on the part of the egg farmer. He should be able to hand his surplus males over at nine to ten weeks old, and they should command a price which should show him a satisfactory profit. It is a question of the right breed and nutrition. What is wanted in this "right" breed? We may name, early maturity, non-broodiness, white flesh and plumage, and good fecundity. Something between the White Bresse and the Light Sussex, and our breeders may believe us when we say that it is not so impossible of accomplishment as some of the ideals for which our exhibition breeders have worked. It seems incredible that our egg-farmers will be for much longer content to rely on the White Leghorn, excellent servant as it has been and is.

## THE NATIONAL POULTRY INSTITUTE FUND.

**GENEROUS OFFERS OF STOCK.—  
AN EXCEPTIONAL BIRD.**

At the time of writing the total sum received from all sources for the National Poultry Institute Fund is £3,718 18s. 9½d. A further £3,000 is required before the National Poultry Council will be in position to hand over to the Minister for Agriculture the cheque for £6,500, which will entitle them to claim the grant of £50,000 for Research and Experimental work. The grant is a generous one, and it will be a sad blow to the industry if the Council is compelled to tell the Ministry that poultry-breeders and farmers are so indifferent to the future of their industry that they will not subscribe the required amount. Those who have not subscribed can have no conception of the need for research work, no idea of its possibilities. The Council of the S.P.B.A. are anxious to raise £1,000 in order to be able to claim the £100 so generously made by Mr. Brooks, who has offered to give that amount conditionally upon the Council raising £1,000. Only 6,000 shillings are wanted to enable us to claim the money, and we have 8,000 readers of "Eggs" and 4,500 members.

Dr. W. F. Menzies has offered us a White Leghorn hen, which in her pullet year laid

303 2½oz. EGGS,

to sell for the benefit of the Institute, his only condition being that she shall be sent to us that we may see what he is offering before she is sold. We shall be pleased to receive offers for such an exceptional bird. There have, of course, been other birds which have laid over 300 eggs, but we doubt if any have laid 2½oz. eggs.

**OTHER OFFERS ARE.**

Ten White Leghorn hens and a pedigree cockerel by Mr. Lester Spurgeon. Five White Wyandotte hens and a male by Mrs. Hunter. The male was used in her own breeding pens this season, and has bred her some first-class stock. A full pedigree of Dr. Menzies's hen will be given. Here is a fine opportunity of obtaining first-class breeding stock, and at the same time helping the Institute Fund.

**THE POSITION ABROAD.**

The Executive Committee of the Producers of San Diego, Inc., have issued the following report to their stock-holders, which would seem to show that the position in California is not rosier than it is here.

The recommendation of a vigorous culling campaign is a very practical one, and might be practised with advantage on many of our English farms. There is no greater source of waste on a farm than the non-producer, and no easier time to cull the unproductive and unprofitable pullet than in November. This will apply to all the April-hatched light breeds and the March-hatched heavies. It is always a dead loss to carry such stock, and it only requires an elementary knowledge of handling to be able to detect them. If these birds were eliminated from the flock in November, the result would be a steady increase in the flock average, because there would be a smaller percentage of culls bred in succeeding years.

San Diego, Calif., July 24th, 1922  
*To the Stockholders of the  
Poultry Producers of San Diego, Inc.*

"Your Executive Committee at their regular meeting on July 21st, made a very careful survey of the present prices and conditions in the poultry industry, as well as the indications for the future, embodying their findings in the following resolution:—

"Be it resolved, that we, the Executive Committee of the Poultry Producers of San Diego, Inc., after careful investigation find:

"First: That the price of Eggs at the present time is ranging from ten to fifteen cents, per dozen lower than last year, while feed prices are substantially the same."

"Second: The U.S. Government report for July 1st shows nearly 2,500,000 cases of Eggs in storage in excess of the five year average at this date. The figures of receipts and accumulations in the four principal markets: New York, Chicago, Boston, and Philadelphia, for the period of March 1st to June 30th, indicate a lighter consumption than last year."

"Third: It is evident from the foregoing facts that egg prices will remain far below last year's prices throughout the balance of this year, unless there is a large decrease in production. It is probable from the present indications that feed prices will not be materially cheaper. It is, therefore, certain that many poultrymen will be forced out of the business!"

"Now, therefore, be it resolved: That the most effective means of meeting the present situation and preserving the poultry industry on the Pacific Coast lies in the elimination of all low-producing hens, and we, therefore, recommend to all our members a vigorous culling campaign. This will have the two-fold effect, of increasing your average production per hen, and also decreasing the total production, which will tend to increase the price of eggs."

"Resolution unanimously passed by the Executive Committee of the Poultry Producers of San Diego, Inc."

## Foods and Feeding.

By TOM NEWMAN.

One of the arguments used against dry mash feeding has been that birds fail to attain the size they do when fed on cooked mash. The following letter from Mr. W. L. Hurman, who is well known as a successful exhibitor of the "Grasmere" Reds, should do something to dissipate that idea. He writes:—"Dear Mr. Newman,—I was more than interested in your leader of August 9th. I must admit that I shall never go back to wet mash again, as my

results this year have surprised me in rearing my exhibition Reds on your mash (dry). What I like most of all about it is, that they have not gone up to look leggy, nor are the cockerels shaky on their legs at 4 months old like I had them in other years, and I must admit that they have better bone this year than before. They are maturing and making their feathers well too. The 2 and 3 year old hens are all on your mash and have been for some time, and are giving me 80 per cent. egg production."

There is less controversy now on the merits of wet and dry mash feeding, and I think that it is beginning to be generally recognised that given the same conditions there is nothing to choose between them as far as results go. This has been my opinion for some years, what is gained by cooking the carbohydrates and so making them more digestible is neutralised by the fact that heat causes the proteins to coagulate and renders them less so.

I have a letter from a reader who tells me that his food bill for 12 months for 400 Leghorns was just over £218, that is 10s. 6d. per head, and the average production just over 150 eggs in 10 months. Roughly, this is 2½d. per head per week, and is a considerable reduction on the corresponding period of last year. One need be careful in buying foodstuffs, and there are so many beginners who are taken advantage of by merchants because they have no idea of prices. Samples of Sussex Ground Oats have reached me from various sources this week, ranging in price from 24s. per cwt. to 19s. The latter sample was superior to former, but my correspondent had been paying the higher price because she would have the best; this is another instance of the mistaken idea that by paying the top price we always secure the best. Other samples of so-called Sussex Ground Oats were nothing but Food Oatmeal, these were offered at 17s., and by the same post came others of equal quality at 14s.

I am afraid my assertion that grain feeding was wasteful and uneconomic is going to cause me a certain amount of trouble. One correspondent writes: "However you could say such a thing when you have only to look round and see the success of numbers of people who do feed at least two ozs. of grain daily to their fowls beats me entirely. You will have to go a bit further before you convince me that you are right. What do you say to seed-eating birds, don't they thrive on grain?"

And that gizzard!!! that seems to be the biggest trouble of all. It is perfectly true that we can look round and see numbers of people who feed their two ozs. of grain daily and are successful, but that does not prove they are feeding economically or that their success is due to feeding hard grain. I have not said failure was due to feeding hard grain, what we want to arrive at is whether it is economical to feed it.

Now, as I have said before, I do not think that digestibility is the final test of the value of a food-stuff, if that were so we should have to admit that maize was the most valuable of all the grains, for tests have proved that it is the most digestible; what we are concerned with is the quality of the constituents which are digested. Reverting for one moment to my correspondent's remark as to the seed-eating birds, he should bear in mind that birds only eat the

kernel of the grain, it is always hulled by them before it is eaten, he will notice this with millet, canary seed and hemp. Therefore they have not to break down the hard hull as fowls do.

For the present I want to confine my attention to the question of digestibility as it affects the chick. First we will take the seeds, wheat, groats, maize, canary seed, hemp, millet, dari, peas, lentils; the first three are the more digestible, the next four are giving the young chick considerably more hard work to digest than is the ordinary grain we feed to the adult fowl, the peas and lentils are difficult to digest because they contain a large quantity of cellulose and their protein is very rich in sulphur, which forms foetid gases in the bowels. Peas and millet are accountable for fairly high percentage mortality with young chicks, there are no two ingredients in any chick feed which are so difficult to digest; I ought to add that this applies to lentils and dari. There is, however, the necessity for exercise; if we neglect this we shall get digestive trouble from another cause. How can we manage this? I suggest the following: Let the scratch feed be 1 part finely cracked wheat, 2 split groats or pin-head oatmeal, and 2 of the flaked cereals, this latter could easily be fed as grain for young chicks passed through a kibbling machine, to be broken a little smaller. We must remember that digestive trouble may soon weaken a chick's power of resistance to disease, and there is no doubt that enormous losses have been caused because the chick is given a high percentage of indigestible seeds, many of the mixtures having been worked out from the albuminoid point of view rather than that of digestibility.

I note in our excellent contemporary, "Poultry News," that a correspondent referring to my paper at Harper-Adams, writes:—"Marmite I know in my household and have given it to young chickens, but it costs 4s. 6d. a lb. Where can one get dried buttermilk, casein and secwa. I used dried milk last winter in my household, it cost 1s. 4d. per lb., I think." In answer to this, Marmite can be obtained in 14 lb. lots at 1s. 9d. per lb., and only one per cent. is used. Dried buttermilk can be obtained at 20s. per cwt. Casein and Secwa are not within the reach of the poultry keeper, and it was explained that dried milk had been substituted for these ingredients.

In reply to E.J., who accuses me of trying to prove that everybody else is wrong, that is nonsense. I don't want to prove anybody wrong or myself right; let us keep pegging away until we get nearer to perfect nutrition.

In reply to R.S., re Charcoal, it is valuable as it does much to prevent intestinal disorders and the formation of gases; in America it is far more widely used than in this country. It certainly pays to have it before the birds, and particularly young chicks.

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.



## BUILDING FELT POULTRY HOUSES

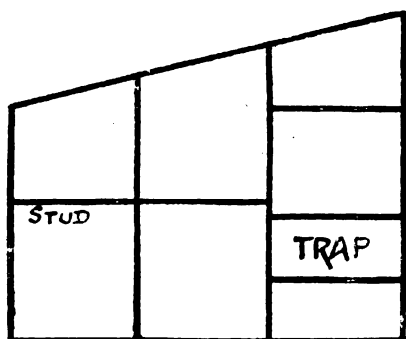
By Capt. R. C. BEATTIE.

Let us imagine that we desire a house of lean-to type, suitable for a breeding pen. Three yards square is a very convenient size. The house is to be sectional, so that it can be taken down and re-erected if desired. A portable house will fetch a fair price, whereas a fixture is often unsaleable.

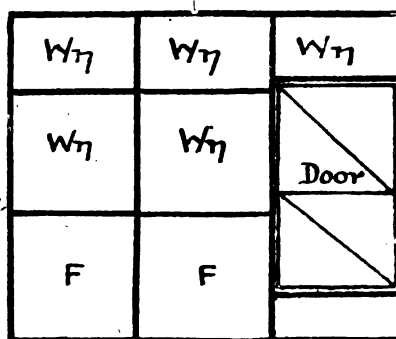
Now take a sheet of squared paper and draw the elevations of front, back and sides. The house will be 7ft. high in front and 5ft. at back. The framing is

slopes from front to back, the tops of the up must be cut to the required angle. Use 6in. nail putting the frame together. There is no need of mortice and tenon any joints—butt joints are sufficiently good. Use a square, and see that the work is cut truly. That is essential to a good job.

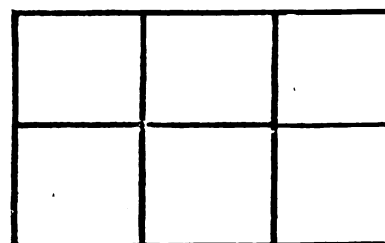
We have now the skeleton of the framework, a rule which must be observed helps us to complete part of the work. The rule is that every square of felt must be supported on all sides. The skeleton framework must, therefore, be divided into approximately one yard squares by cross-bars or studs, as they are called. One line of studding will go across middle of the back, one from front to back on sides, one yard from base piece, and likewise across



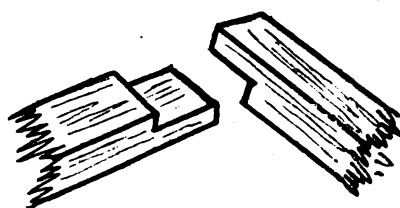
Side Elevation



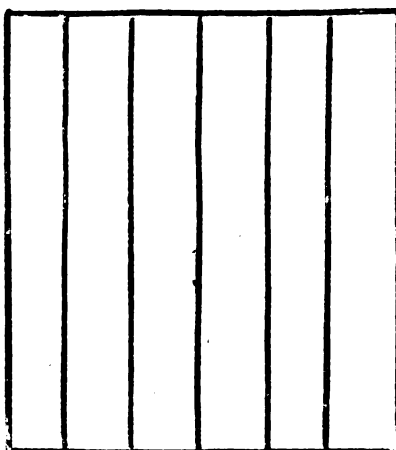
Front



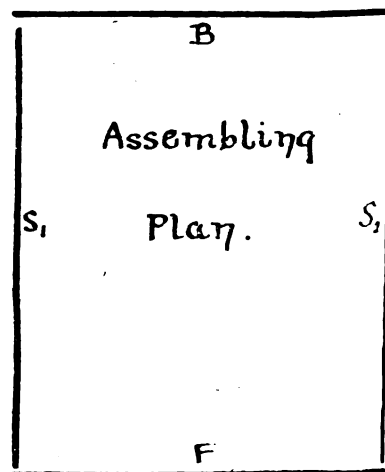
Back



A Halved Joint



Roof



all 2in. x 2in. rough scantling. To form the front there will be four uprights 7ft. long and a top and bottom piece each. Well, not quite 9ft., because the felt is one yard wide and a 2in. overlap must be allowed in each section for securing the felt to the framework; so consider that point when making the plan. You will find that the front will be 8ft. 6in. x 7ft. It is better to allow a shade too much overlap than too little. Arrange for the door in the right-hand section. Let the back be 5ft. high and 8ft. 6in. long. The frames for the sides will be 8ft. 6in. base, a little longer top, and the uprights will vary from 5ft. at back to 7ft. in front. Note that as the top beam

the front, except at the door section. The front will need another row one yard above the first. The door section has one stud 12in. above the base line, and one 18 inches below the top line. This allows for a door 4ft. 6in. high, which is sufficient. The birds will require two trap doors, one in each side wall, for alternative use according to the direction of the wind. So take the side section nearest the front; insert a stud 18in. from base line and 15in. above that of another stud. That clashes with the middle row stud! Just so, it's a good thing we are making the plan first. The middle stud in this section can go 2ft. higher at least. This saves wood, because we have to have the trap

door studs anyway, and we it not for them, two studs would be required in this tall section to support the felt. The trap-doors themselves are best made of wood.

Now lay the four frames on the ground and cover them with felt. The felt must be attached to the frame work with laths and lath nails. Cut a piece of felt to required length, lay it on a section, take care of overlap, lay a lath along the edge and drive lin. lath nails through lath and felt into the framework. Where there is more felt to be laid in an adjoining section, secure that edge of the first felt with two or three nails only for the time being. Place the edge of the adjacent piece over it, and secure both pieces with one row of laths. The felt must be secured to the studs in a similar manner. Only the bottom squares of the front will be felted, the upper ones are covered with wire netting—open in summer and covered except for 18in. at top in winter either by shutters, hinged windows, or screens made with glass substitute.

The roof is a square frame 8ft. 6in. long, and sufficiently deep to allow 6in. overlap at back. At the front it must rest flush on top of front frame. There will be five rafters, not counting the sides of the frame running from front to back. Thus in the roof the yard square rule is modified. The felt is attached with laths, as usual, making a row of laths about every 16in. or 17in. across the roof. There must be no studing or cross lathing, as the water would not then run off properly. Should snow be usual in winter, the roof frame should first be covered with 3in. mesh wire netting, and the felt laid on top. The felt is quite strong enough for the walls, and will give no trouble. Allow 20in. of felt to hang over at what is to be the front edge of the roof.

When the walls and roof are felted, they can be assembled. Fourteen 5in. x 1/2in. bolts are required, two at each corner and six to attach the roof.

The door can be made of 2in. x 1 1/2in. battens. The outside framework should be made first and the joints at the corners should be halved. The door will need a cross-bar at the middle, and should be braced with two diagonal struts. See that the lower brace runs upward from the bottom hinge, and the top one parallel to it. Hang the door with two T hinges, and allow the felt to overlap an inch all round to give greater security from draught.

The top 18in. of the house is shielded by a fixed weatherboard. Take care that the door clears this, and do not make it at too wide an angle with the front of the house. Four acute-angle brackets made of 2in. x 1 1/2in. battens will be required. Let the upper arm be about 16in. and the under 2ft. The stud subtending the angle make 6in. or 7in. long. When these brackets are nailed to the front, run a piece of lin. x 1in. "nosing" along the projecting ends. Now bring the felt that is hanging from the front of the roof down over this framework, and secure with laths and lath nails.

Inside portable nest boxes are recommended as they are simpler to make than outside nests.

The felt used should be thick 3-ply bituminous felt, and the cost is about half that of 1/2in. matching. Any size house can be built by this method—30ft. x 15ft. is just as easy as 9ft. square. In large houses it is advisable to use a certain amount of 3in. x 2in. scant-

ling, and they need a little cross-bracing, which the small ones do not require. These houses will stand the worst wind and weather for many years, but see that they are securely bolted down. Any house will blow over if this is neglected.

In conclusion may I direct attention to the article on "Ventilation," by Lieut.-Colonel Hardy in "Eggs" August 30th, 1922, which is of great value.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### IMPORTANT NOTICE.

Members are reminded that the financial year of the Association terminates on August 31st, and all subscriptions are due as from that date.

The subscription is a minimum one of 5s. per annum.

The names of members whose subscription is unpaid by October 15th, cannot be inserted in the Annual Register.

The rules of the Association provide that three members of the Council retire annually, but are eligible for re-election.

Nominations for membership of the Council should be forwarded to the Secretary, not later than Friday, September 15th.

The Annual Register will be published in December, and a copy will be sent to each member whose subscription is paid.

Members who desire to register their birds, should apply to Mr. H. Mudie-Draper, Revesby, Holmfild Road, Leicester, for registration forms.

All applications for advertisement space in the Register should be addressed to Mr. F. J. Churchyard, 94, Farncombe Street, Bermondsey, S.E.16.

Alterations or corrections of address should be sent to the Hon. Sec. as soon as possible.

Members who desire the S.P.B.A. Badge should send one shilling with their subscription.

The monthly meeting of the Council was held at the Memorial Hall, on Tuesday, September 5th. Present: Mr. J. G. Kitson (Chairman), Mrs. Hunter, Lieut.-Colonel F. W. Hardy, Messrs. E. J. Meekings, P. L. Johnson, J. Smart, A. Harold Paine, Lester Spurgeon, F. W. Wait, Dr. Crowley, and the Treasurer and Secretary.

The Secretary reported that 106 new members had been elected during the month of August.

### THE NATIONAL POULTRY PARLIAMENT.

The three resolutions submitted by the Council to the National Poultry Parliament had all been accepted. Three representatives of the S.P.B.A. had been elected on the Executive Committee of the National Poultry Council, and they were represented on all other committees and on the National Diploma Board.

A Conference with the Northern Branches was to be held at Liverpool on Saturday, September 30th. Mr.



Meekings and the Secretary would represent the Council.

The following will represent the S.P.B.A. at the meeting of the National Poultry Council at York on September 29th: The President (Mr. J. G. Kitson), Lieut.-Colonel F. W. Hardy, Mr. E. J. Meekings, Mr. E. Bostock Smith, Mr. Lester Spurgeon, and the Secretary.

The Treasurer submitted his report, and congratulated the meeting on the Satisfactory position of both "Eggs" and the S.P.B.A.

The Chairman of the "Eggs" Committee reported that there was a steady increase in the circulation, which was most satisfactory at this season of the year.

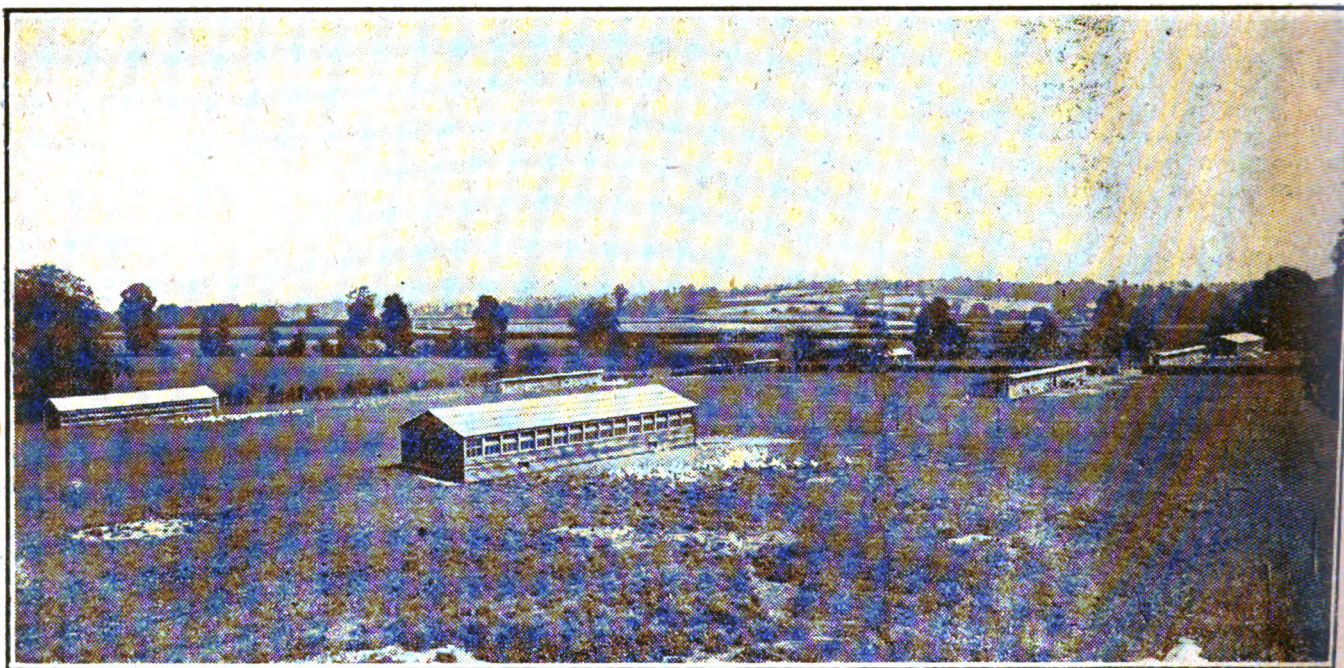
Arrangements for the Annual General Meeting were left in the hands of the President and Secretary.

The date of the meeting was fixed for Tuesday, October 3rd. This concluded the business.

RECEIVING SUBSCRIPTIONS IS OCTOBER 1st. NAMES OF MEMBERS WHOSE SUBSCRIPTIONS ARE NOT PAID BY THAT DATE CANNOT POSSIBLY BE INSERTED IN THE REGISTER. There were many who were disappointed last year because their names were omitted, but it must be obvious to them that there must be a closing date. Six thousand copies of the Register will be published this year; this is 1,500 copies in excess of last year and 3,000 more than in 1920. Mr. Mudie-Draper tells me that the weight of the paper used this year will be 2½ tons.

#### A BREEDING QUESTION.

Mr. G. W. Thompson sends me the following question: "A" desires to mate two specially selected hens with a cockerel. He proposes to put the hens to the male for service and remove them immediately. (1)



KENILWORTH POULTRY FARM. GENERAL VIEW OF LAYING HOUSES. EIGHT LAYING HOUSES IN 10 ACRES. ACCOMMODATION FOR 2,500 LAYERS.

#### NEW MEMBERS.

Sixty-four new members were enrolled in the first week of the present month. That constitutes a record, and is splendid testimony to the excellent work of the S.P.B.A., for nearly everyone of these members had joined on the advice of some old member.

#### REGISTRATION FORMS.

Registration forms can now be obtained from Mr. Mudie-Draper, "Revesby," Holmfield Road, Leicester. It will greatly assist if members will send for them at once, and return them as soon as possible. The preparation of the Register means an enormous amount of work crowded into a very short time, and we must give the Editor all the assistance in our power. We can do so by not delaying until the last moment to send in our subscriptions and registration forms. Please note that THE LATEST DATE FOR

How often should they be served? (2) At what hour in the day would the service be more fruitful if done after laying?"

The first question involves that of the duration of fertility, and I think the best answer to Mr. Graham will be to quote again the result of the experiments which were made, I believe, at the Maine Agricultural College. Ten laying hens were separated from the male, and the eggs laid each day incubated so as to determine their fertility. Of the eggs laid the first four days after the removal of the male 70 per cent. were fertile, those on the 5th 61 per cent. were fertile, on the 7th 49 per cent., on the eighth 12 per cent. A fertile egg has been obtained from a Leghorn hen 20 days after the removal of the male, and the general fertility of the egg held up well for 11 days. On this point I think it would be well if the hens were mated every two days, in spite of the 70 per

## ALL "VITA" METAL (THE LIVE TRAPPER). TRAP NEST FRONT

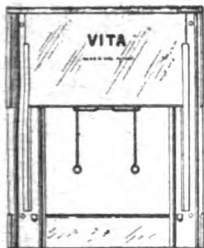


FIG. 1.

INFALLIBLE IN ACTION. VERMIN PROOF.  
THE FASTEST AND MOST SENSITIVE TRAPPER IN EXISTENCE.  
*Fitted with Aluminium Drop Shutter Half as Light as a Wooden one.*

CANNOT WARP.  
THE NEST SHOWN READY FOR TRAP-  
PING, THE FREE SWINGING BOLTING  
WIRE OPERATING A SENSITIVE  
RELEASE, AND ALLOWING THE BIRD TO  
GET WELL INTO THE NEST.

CANNOT BREAK.  
THE NEST SHOWN LOCKED IN THE  
OPEN POSITION, ALLOWING BOTH  
HANDS FREE TO GET OUT AN OBJEC-  
TOR, AND PROVIDE AN OPEN NEST AT  
WILL.

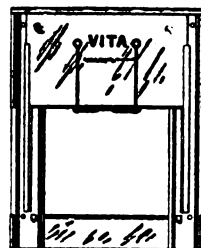


FIG. 2.

Roderick's Prov. Patent No. 17998.

<b>PRICES</b> { Set of 4 - 14/3 Carriage paid Set of 8 - 28/6 "	Set of 12 - 38/6 Carriage Paid 20 and upwards - 2/9 each "
--	---

OUTSIDE DIMENSIONS 14 1/2 inches by 11 1/2 inches.

Special Quotation for 100 and upwards will be given.

**THORP-RODERICK MFG. CO., 32, BROADWAY, BEDFORD.**

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.  
WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Disease.

**ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.**

Tested Breeding Hens, with Complete Trap-Nest Records and Pedigrees.  
Fertility and Hatchability, 90 per cent. No Small Egg Birds.  
1821 Birds with Records about 184 First Grade Eggs, from 10/6.

Try us for your WET AND DRY MASH made to your own requirements.

We offer the following:— per

NEWMAN'S POULTRY MASH .....	
MIDD'S .....	
BEAN BROAD .....	
BEAN ORDINARY .....	
MAIZE GLUTEN FEED .....	
SUSSEX GROUND OATS .....	
BISCUIT MEAL .....	
CLOVER MEAL .....	
ENGLISH CLIPPED OATS .....	
Special Line Best MEAT MEAL .....	

Everything for the Poultry Keeper kept Stock.

Bags Free and Free on Rail. Cash w Order.

**DRAKARD & CO., Ltd.,**

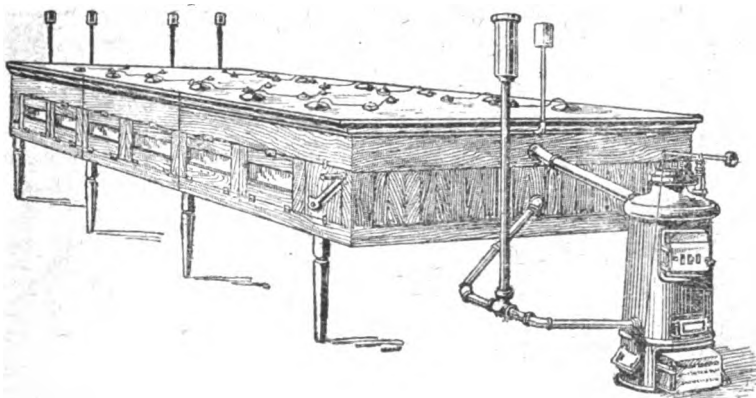
Corn Merchants,  
PUBLIC HALL, HADLIGH, ESSEX

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 3d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the Incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.



# COMPARE OUR PRICES ALSO OUR SAMPLES

## WHICH ARE FORWARDED FREE ON APPLICATION.

	Cwt.		Cwt.
	s. d.		s. d.
Intensive "Moregg" Laying Meal (contains Alfalfa) ...	18 0	"Moregg" Dry Mash ...	17 0
"Moregg" Laying Meal (no Alfalfa) ...	17 0	Poultry Mixture ...	17 6
Pure Sussex Ground Oats ...	20 0	Poultry Oats (clipped) ...	17 6
Pure Alfalfa Meal ...	23 0	Kibbled Maize (screened) ...	14 6
Pure Clover Meal (not Cob or Chaff Dust) ...	18 0	"Rearall" 1st Chick Feed ...	24 0
Fish Meal (60 p.c. Alb.—under 4 p.c. Salt) ...	21 0	"Thryvon" 2nd Chick Feed ...	23 0
Meat Meal (60 p.c. Alb.—Prot. 59.98 p.c., Nit. 6.60 p.c.) ...	23 0	"Matus" Chicken Mixture ...	20 0
Carriage Paid.		Chick Mash ...	18 0
		Carriage Paid.	

Special Discounts on all the above if orders are received through the S.P.B.A.

# E. DIXON & SONS,

## ST. ALBANS, HERTS.

### NOTE NEW PRICES.

#### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

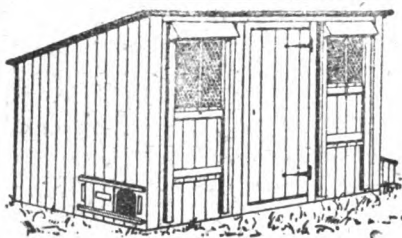
	per cwt.
	s. d.
Dried Skimmed Milk ...	24 0
Sussex Ground Oats ...	16 0
Maize Meal ...	11 0
Maize Gluten Feed ...	12 0
Pea Meal ...	16 0
Bean Meal ...	16 0
Meat Meal (Fine Ground) ...	22 6
Fish Meal (Best White) ...	23 6
Biscuit Meal (Fine) ...	22 6
Clover Meal ...	18 0
Broad Bran ...	12 0
Middlings (Best Fine White) ...	14 0
Middlings (English) ...	12 0
Feed Wheat (Best English) ...	15 6
Feed Oats (Best English) ...	15 0
Kibbled Maize (Sifted) ...	12 0
Flint Grit ...	5 0
Limestone Grit ...	5 6
Oyster Shell ...	8 0
Cockle Shell ...	6 6
Rolled Wheat (for Chicks) ...	15 0
Dried Yeast ...	29 0
Pinhead Oatmeal ...	26 0
Whole Oat Groats ...	26 0
Broken Rice ...	16 0
*No. 1 Chick Feed ...	22 0
Mash for Laying Hens ...	18 0

(Both the latter are Mr. Tom Newman's Recipes.)  
FREE ON RAIL, HEATHFIELD or LONDON.  
5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

Carr, Macdonald & Clevely, Ltd.,  
Britannia Mills,  
HEATHFIELD, SUSSEX.

## GREAT BARGAIN!



Only £5 Free on Rail.

This house is 8ft. 0in. x 8ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected tin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-;  
if in 2-in MATCHLINING, 10/-

SHIPLEY FIELDS POULTRY FARM,  
SHIPLEY, YORKS.

'Phone: 521 SHIPLEY.

### REDUCED PRICES.

#### CLARK'S PURE SUSSEX GROUND OATS.

#### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags ...	2 3
12lb. Bags ...	3 6
28lb. Bags ...	7 6
56lb. Bags ...	12 9

#### PRICES PER CWT.

	s. d.
1 cwt. ...	25 0
3 cwt. ...	24 0
6 cwt. ...	23 6

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

W. H. S. CLARK & Co., Ltd.,  
56, HIGH STREET,  
LEWES, SUSSEX.

September 20th, 1922.

EGGS.

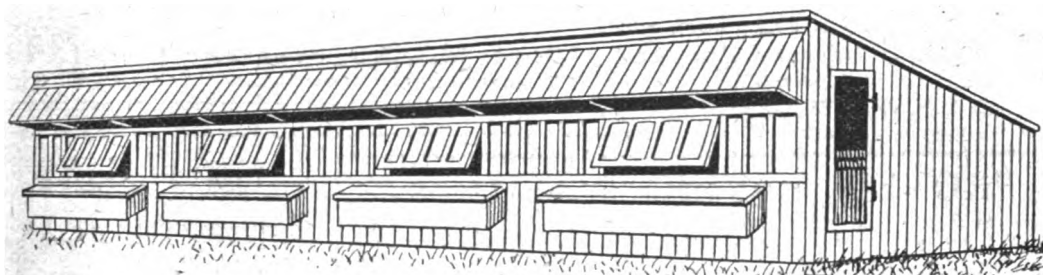
**SWELL YOUR PROFITS BY BUYING AND USING ABSOLUTELY SOUND GOODS.**

**MEMBERS CAN DO THIS BY PAYING**

**C. A. SYDENHAM HANNAFORD DOWN**

**THROUGH MR. TOM NEWMAN.**

**The Popular HOUSE.**



**FULL LIST FREE.**

This is, without doubt, the most popular house on the market, either as an Intensive or Semi-Intensive House. It is made in various sizes, but one who wish to start with a Medium Size One, can always add extra sections, as required. There are so many manufacturers at the present time who claim to have the best goods that it is most difficult for the general public to understand the value of such goods by illustrations. The illustration above gives you, however, a good idea of the makes of the Popular House, but it does not do it justice, and it is better to see the actual house in use, and this can be done by viewing my Poultry Farm, which is always open for inspection, with the exception of Sundays. I claim to do more experimental work with my Appliances than any other Poultry Appliance Maker. When used as Intensive Houses, my larger houses, commencing with Size No. 3, are supplied with extra wire doors for extra ventilation in summer time, and sashes to open in front in the winter; these closed make the most snug and waterproof house and the market, at the same time plenty of fresh air is obtained from under the special Hood at top of front. Now we come to the point which concerns most of us, viz., THE PRICE. Most people get misled here by glowing advertisements, and are often sadly disappointed. At the same time the matter of a few shillings or even pounds on a large house should not worry much weight; better to pay this and have a house that will last years longer, and one that will be comfortable for your birds; but as a rule if my prices do come a little high, I give value for it, in addition to 20 per cent. to 30 per cent. better value in my goods. Take my popular House in my No. 3, which is a most favourite size. I give you two splendid 2gal. best galvanised iron top-fill water fountains and 2, in. dry mash hoppers, also galvanised iron, made by some of the best tinsmiths in the country on my own place, and not common stampings which are sent out by some, and made by others, so that you have to pay a double profit. There is a deal of interest in having goods made and sent out from my own works, in addition to giving greater satisfaction. I also put in for this house to be erected on four layers of 2 x 3 paneled sleepers, the front is provided with good 24oz. glass, dropping boards and two perches, properly rounded, a 5ft. extension is fitted allway across the house, so with a little labour you can convert it into a double breeding pen. The roof is felted with best 2-ply Bitumen felt, to the common sanded. This is properly battened down, and felt is turned over edge of both front and back. The whole building is coated with my preservative penetras, also bottom of floor and top of roof. This is not the ordinary gas oil called creosote. The fittings, such as hinges, locks, window stays, etc., are of the best, good bolts, complete for erection, and all parts clearly stencilled with large figures for easy section. THERE IS NO GREEN ENGLISH WOOD IN THESE HOUSES TO WARP AND TWIST, and so become uninhabitable for either poultry or human beings, as MY HOUSES ARE SUITABLE FOR EITHER. This house is fitted with two trap doors in the back, so that you can use alternate runs if used semi, and trap-nest fronts can be added if desired. Last, but not least, I give you full measurements, a few inches here and there make a considerable difference on a large house.

The 16 x 10 (No. 3) is also sent out as a Brooding House, so constructed as to take four of my Pioneer Hovers. Full particulars on application.

### PRICES.

	£	s.	d.		£	s.	d.	Capacity.
0. 1. 6ft. long, 10ft. wide, 5ft. high back, 7ft. front, also suitable breeding pen	14	5	0	Floor and Sleepers	3	6	6	Birds.
2. 10ft. long, 10ft. wide, 5ft. high back, 7ft. front, can be converted 2 breeding pens	19	4	9	Floor and Sleepers	4	10	3	12 to 15
3. 16ft. long, 10ft. wide, 5ft. high back, 7ft. front, can be converted 2 breeding pens	27	1	6	Floor and Sleepers	5	12	0	20 to 25
4. 20ft. long, 16ft. wide, 4ft. high back, 7ft. front	42	5	6	Floor and Sleepers	14	9	9	40 to 50
5. 30ft. long, 16ft. wide, 4ft. high back, 7ft. front	62	2	6	Floor and Sleepers	20	3	9	80 to 100
6. 30ft. long, 16ft. wide, as illustration	82	3	6	Floor and Sleepers	26	2	6	120 to 150
7. 50ft. long, 16ft. wide, 4ft. high back, 7ft. front	116	19	6	Floor and Sleepers	31	15	0	160 to 200
8. 50ft. long, 16ft. wide, 4ft. high back, 7ft. front	135	3	6	Floor and Sleepers	37	10	0	200 to 250
9. 70ft. long, 16ft. wide, 4ft. high back, 7ft. front	154	4	6	Floor and Sleepers	42	10	0	250 to 300
10. 80ft. long, 16ft. wide, 4ft. high back, 7ft. front	192	19	6	Floor and Sleepers	61	0	0	300 to 350
11. 100ft. long, 16ft. wide, 4ft. high back, 7ft. front	228	7	6	Floor and Sleepers	78	8	6	340 to 400
12. 120ft. long, 16ft. wide, 4ft. high back, 7ft. front								450 to 500
								520 to 600

ALL CARRIAGE PAID-TO STATION. 5 per cent. extra beyond Firth of Forth, Channel Islands, Isle of Man. Early Despatch can be given.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.**

*The South of England Poultry Yards and Appliance Works,*

**HAMWORTHY JUNCTION. DORSET, ENGLAND.**

TO PROVE THE QUALITY OF MY GOODS I AM JUST PREPARING TO SHIP to BERMUDAS, WEST INDIES, a 50ft. LAYING HOUSE, BARGAINETTES, HOVERS, EGG BOXES, Etc. Etc.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of Lime  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),  
515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 1921 PULLETS, 6/-

White Leghorns and S.C. Anconas, from 12 Birds, and will make excellent breeding for next season. Carriage Paid on 50.

### STOCK COCKERELS.

White and Black Leghorns and S.C. Anconas. April hatched from 12 each 7/6 and 10/6 each. Carriage Paid.

All Birds sent on approval against remittance or deposit.

Crates to be Returned.

MARKHAM, SONS and ALLOTT, 3, FRIAR  
QUENIBOROUGH, Near LEICESTER.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

### Mr. Cecil L. Byrne,

Gives Instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

## FLUID IZAL POWDER

### DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

IZAL FLUID.

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

nt. fertility on the 4th day, as there was probably some loss before it could be determined by incubation whether the eggs were fertile or not. (2) As to the second question I must confess that I am unable to answer it.

#### THE REMOVAL OF THE MALE.

Member," commenting on Mr. Boucher's letter, from which I quoted last week, says that if the male is permitted to run with the hens all the winter, he is confident that a high percentage of infertility will result. Now it is one thing to be confident and another thing to know. My experience coincides with that of Mr. Boucher, and I remember once some years ago discussing this with the late Mr. Oscar Smart, and expressing the opinion that it was a great mistake to remove a male at the end of one breeding season, which it was intended to use the next. He quoted what I said in "Eggs," and tested it himself the following season, and his experience confirmed my opinion.

At the West Virginian Agricultural Station, Gowell studied the effect of long and short matings upon the proportion of eggs hatched. From pens where males and females ran together all the winter 3,240 eggs were incubated, and 1,529 chicks hatched, an average of one chick to every 2.13 eggs. From pens where the males and females had not been together until the mating season, 2,160 eggs were incubated, and 1,075 chicks were hatched, or about one chick to every two eggs. The observation was made that this slight difference should not be interpreted as meaning that there are advantages in the short over the long matings.

The point is, however, that males after removal from the hens for a long period are often sterile, that is an experience many breeders can confirm.

#### CHANGE OF ADDRESS.

Messrs. Browne and Barrackough ask me to notify members that their new address is "The Norvale Poultry Farm, Costessey, Norwich."

#### SCIENTIFIC POULTRY BREEDERS' ASSOCIATION.

##### NORTHERN BRANCHES CONFERENCE.

THIS CONFERENCE will be held at THE COMMON HALL, 3, HACKINS HEY, DALE STREET, LIVERPOOL, on SATURDAY, the 30th SEPTEMBER, 1922.

THE AFTERNOON SESSION for Members will commence at 2 p.m., and THE EVENING SESSION, open to the Public, at 6 p.m.

At the Afternoon Session the Annual Report of the Scientific Poultry Breeders' Association will be put before the Members by the Hon. Secretary, Mr. TOM NEWMAN, who will afterwards give a paper, entitled, "PRODUCTION AND NUTRITION."

The Evening Session will include a short address on the Objects and Advantages of the Association, by Mr. JOHN MEEKINGS, of Watford Poultry Farm, Watford, followed by a paper by Mr. H. BROOKSHANK, of Golden Cross Poultry Farm, Hough Green, entitled,

"INCUBATION AND FEEDING IN RELATION THERETO,"

to be followed by a question hour, when written or verbal questions can be put to the Meeting.

W. B. CLEAVER, 12, Aysgarth Avenue, West Derby,  
Hon. Secretary.

#### OUR FRONT COVER.

The White Runner Drake is a son of a duck which laid over 200 large eggs in 49 weeks, and "LADY OF SISSERVERNES," the White Runner Duck, which laid 218 large white eggs in the National Laying Test, and is still hard at it. Note the alertness and width; just what is needed to allow plenty of room for the egg chamber to develop. The pair have bred some grand stock this season, as all Miss Harrison Bell's White Runners are kept on free range, and have 100 acres to roam over. Miss Bell makes a special point of the white egg, which is, of course, important. Miss Bell has a specially constructed house for trapping ducks, which she evolved after much thought and many experiments.

#### THE SCIENTIFIC POULTRY BREEDERS' ASSOCIATION, BOURNEMOUTH BRANCH.

The Annual General Meeting will be held at Havergall Hall, Post Office Road, Bournemouth, on the 11th October, at 7 p.m. sharp. Mr. Tom Newman will give a lecture on "Some Causes of Failure," incorporating a Demonstration of the Handling Test.

Members are urgently requested to inform all their poultry friends and to bring them along and induce them to join up.

Members from the country districts having experienced difficulty in getting home after the meetings last season, it has been decided to begin and finish earlier to enable them to catch their last trains, etc.

A Table Show of Eggs has been arranged for the Monthly Meeting on 1st November. Prizes will be given, and the classes will be as follows:—

Class 1—Best Six Brown Eggs.

Class 2—Best Six Tinted Eggs.

Class 3—Best Six White Eggs.

Subscriptions are due, and should be sent to the Hon. Sec., H. J. Williamson, Fayrelead, Ensbury, Near Bournemouth.

#### THE MIDLAND LAYING TEST.

Mr. A. H. Brain asks me to appeal for entries for the Midland Laying Test. The Leghorn section has filled well, but there is a shortage of entries in the Wyandottes, R.I. Reds, and A.O.V. section. All applications should be addressed to Hill Top, West Bromwich.

## NOTICES.

#### NATIONAL POULTRY COUNCIL.

##### VISIT TO YORK.

In view of the fact that many prominent and well-known poultry speakers will be in York during the National Poultry Council's visit, the York and District Poultry Society are arranging two very important meetings on Thursday, September 28th. The first meeting (independent of the Council's work) will be held in the Y.M.C.A., Clifford Street, at 8.30, to discuss the proposed Yorkshire Federation of Poultry Societies. It is



anticipated that Mr. Edward Brown will speak. In the evening a great public meeting will be held in the Guildhall, presided over by the President of the York Society, Mr. Rusholme. Several well-known speakers have consented to take part in the proceedings, and a very hearty welcome will be given to all members of the S.P.B.A. residing in the East and West and North Riding of Yorkshire. A very convenient train service will be found to exist. Full particulars will be forwarded on application to the Secretary, Mr. A. J. Moore, Ousefield Farm, Kelfield, Yorks.

### INTERNATIONAL ASSOCIATION OF POULTRY INSTRUCTORS AND INVESTIGATORS.

The International Association of Poultry Instructors and Investigators has received from the Spanish Government a hearty and cordial invitation for holding the Second World's Poultry Congress in Spain during 1924, supported by the Municipality of the City of Barcelona and the Committee of the Universal Exhibition of Barcelona, 1926, which latter body has offered the use of the fine buildings now being erected in that City for the Congress and Exhibition. Recently Mr. Edward Brown, F.L.S., President of the International Association, visited Spain for conference with the Government and authorities at Barcelona, and following upon his report these invitations have been accepted by the Council of the above Association.

In due course, when the Executive Committee to be formed has drafted a Provisional Programme, this will be published. It is proposed that the Opening Meetings of the Congress and the Exhibition to be held shall be at Barcelona, the Municipality of which City has made liberal grants towards the expenses, and that the closing meetings shall be in Madrid, thus affording delegates an opportunity of visiting different parts of that interesting country.

## HOUSES OF FELT.

By TOM CARTER.

In reply to numerous inquiries re my laying house, I give the following details of house, 70ft. x 9ft. x 7ft. high, sloping to 5ft., eighteen 4in. x 3in. posts, nine of them 9ft. long and nine 7ft. long, form the uprights. The lower 2½ft. of each was placed over a fire to drive off moisture, and when beginning to char were dipped in tar, and allowed to dry for 24 hours, and then given a further coat of tar. These posts were sunk into the ground to a depth of 2ft. in the required positions, i.e., 8ft. 9in. apart (centres) along the front and back of house site, and 9ft. apart—outer faces—front to back. As a further precaution against the lifting force of gales blowing at right angles to the open front, short cross-pieces were nailed at the top of the front row before inserting. Cross-pieces, 3in. x 1½in. section, were then fixed in position along the top and bottom, and also at a height of 5ft. from the ground along the front. To carry the two intermediate roof supports nine 4in. x 3in. pieces run from post to post down the slope of the roof. Nine 3in. x 1½in. pieces about 3ft. 6in. long were fixed to each front post 12in. below top cross-pieces, projecting 1ft. 10in. in front, and secured

at the other end to the sloping 4in. x 3in. pieces before mentioned. These projections pieces carry the roof which forms the outer extremity of the hood.

At this stage the rat-proof barrier was constructed by cutting a trench 4in. deep and 3in. wide all round the house. This was filled in with concrete formed of engine ashes, six parts to Portland Cement one part brought up to the underside of the bottom cross-piece. The neighbouring farms are infested with rats, but after several years' trial I find this barrier effective. In covering the back and ends of the house with felt we find it best to cut felt to the required lengths in the inner skin, and secure with ½in. felt nails to 2in. x ½in. battens before fixing in position. Three pieces of batten are required to each 3ft. width, spaced 9in. apart (11½ centres), leaving one edge without batten. The first sheet is fixed in position with 2in. nails. The second sheet overlaps the free edge of this 1½in., and so on with each subsequent sheet. The free edges of each sheet are afterwards nailed to the overlapping felt and batten. The outer skin is then fixed in position but instead of felt nails, sawn plasterer's laths, 1in. x ½in. are nailed along each batten with 1in. nails. A door 3ft. wide is provided in each end.

For the roof sheets of felt 10ft. long are cut and 10ft. battens attached as in the case of the back. We find it convenient, however, to fasten three of these sheets together before lifting in position. This forms a section 8ft. 9in. x 10ft., which is rolled up—both felt and battens—lifted into position, unrolled, and secured to the four supporting cross-pieces with 2½in. nails. The 10ft. battens overhang about 3in. at the back, and are trimmed off at the front to allow of batten 2ft. long to form the hood, being secured to the top cross-piece so as to form a continuation of these roof battens. Sheets of felt 12ft. 6in. long are then placed in position. These stretch from the outer edge of the hood to the edge of the roof at the back, and are fastened down with plasterer's laths and 1in. nails along each piece of batten. The hood is thus covered with only one layer of felt, which we find sufficient. Lengths of batten 2in. wide are nailed to the underside of the projecting batten at the back, which are then trimmed off, and the felt turned down, and securely nailed. I find my man in this way can construct, fix in position and finish off completely an 8ft. 9in. roof section in about two hours, working single-handed.

To carry the felt and glass, which form the front 5ft. battens are placed perpendicularly 12½in. apart centre to centre. Felt is then secured in position on both the inside and outside of these to a height of 2ft. 6in. A sill to carry the lower panes of glass is formed from lengths of batten, with the upper edge planed so as to slope a little. This is fixed ½in. below the top of the felt. The lower panes (15in. high x 12in. wide) rest on the sill in front of the ½in. of felt, and the upper panes rest on the top of these. Each pane fits in front of the adjacent edges of two battens, and there is ½in. space between the panes down the centre of each batten. Plasterers' laths 2ft. 6in. long, with three brass screws ½in. long inserted at equal distances down the centre are placed in front of the glass, so that the screws pass between the panes into the battens.

Partitions of single felt are fitted at the back 8ft. 9in. apart and 6in. deep.

A sloping pit for droppings is formed at the back in each division. Three pieces of batten are driven into the ground 18in. from the back—each being 2ft. high when fixed. 18in. pieces are nailed horizontally to the tops of these, and to the back of the house. An 8ft. 9in. batten rests on these to form a perch. A sheet of felt, 8ft. 9in. x 2ft. 0in., is secured by plasterers' laths and lin. nails along one edge to an 8ft. 9in. batten, and the other edge is then similarly fastened to the bottom cross-piece. The battened edge is stretched across to the three upright battens, and securely nailed, forming the sloping face of the droppings pit. To facilitate the emptying of this pit a small trap-door is fitted in the back through which the droppings are pushed, and then collected from the outside.

In this article I have attempted somewhat hurriedly to describe as lucidly as I am able the materials and methods employed here. They are, however, subject to modification, as circumstances lay require. If I have given the impression that it is an intricate matter to build a house of this type I assure the fault is my literary disability, and is not so actually. Every point in the construction has been tested experimentally before erection, and proved to provide many times the security required against the worst gales. Many people have been to see the houses and smaller ones erected three to four years ago, and have started to build on the same lines..

I have great faith in the possibilities of this type of house. I believe it to be an economically sound proposition in the broadest sense of the word, i.e., over a series of years.

I have no predilection for the "lean to" type of roof, although I have on this house used it. Its adoption and more or less successful use by the pioneers of the large house system has probably prevented the use of "span" roofs in large houses. The respired air tends to hang under the hood in calm weather, and S.E. and W.W. winds coming in over the glass are deflected by the roof on to the backs of the birds. This does not happen with the "span" roof ventilated at the ridge. The next house erected here will be of the "span" roof type, but the exact design has not yet been decided upon. I rather fancy a house for 200 birds, 50ft. x 16ft. x 6ft. to eaves and 9ft. to ridge. The two 50ft. sides to be exactly alike—4ft. of felt—and the remaining two feet fitted with two rows of glass panes 1ft. high, sloping inwards at an angle of, say, 30 degrees from the perpendicular to admit fresh air. Ample outlets to be provided along the ridge. Droppings pits and perches along both sides, the height of perches being 2ft. This would be 3ft. below the lower air inlet. Hoods would not be necessary, as neither rain or snow could be driven in at any time by the wind. Doors to be fitted in the centre of each gable end. The idea is that the house should run north to south, with a large window at the southern end. The rays of the sun as it rises in the east would pass through the glass on that side; at noon through the south end, and later on through the west side. Full advantage would be taken of this in winter, but from May to September the southern window would be entirely screened by a blind or other arrangement. If anybody has any evidence to offer for or

against, I feel sure the Editor would be glad to publish same. Certainly there is room for a great improvement in the type of house usually built.

To provide additional incubator capacity an incubator house of felt with 2in. cavity walls and roof to be packed with sawdust is planned for erection in January, and colony brooder houses, 10ft. square, to brood 250 chicks, and provide subsequent accommodation for the resulting pullets to laying age. A hover to brood these in one flock is being experimented with, of which particulars will be sent later.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, SEPTEMBER 15th, 1922.

GRAIN AND FEEDING STUFFS.—Quotations for new wheat are again easier, ranging from 38s. 6d. to 40s. per 504 lbs., with samples fit for seed making up to 50s. Imported wheat, however, meets a better trade, and prices have a dearer tendency, No. 2 Hard Winter making 47s. 3d. to 49s. 6d. per 496 lbs. British feeding barley is rather dearer, oats show little change either for British or imported, but maize is inclined to be cheaper. Ample supplies of English offals are available and prices are easier.

MILLERS' OFFALS.—Bran (British): Bristol, £6 15s.; Hull, £6 2s.; Liverpool, £6 10s.; London, £6. Broad Bran: Hull, £7 2s.; London, £7 10s. Fine Middlings (Imported): London, £9 2s. Coarse Middlings (British): Bristol, £9 7s.; Hull, £9 7s.; Liverpool, £9 5s.; London, £8. Pollards (Imported): Hull, £6 10s.; Liverpool, £7 10s.; London, £6 10s. Rice Bran: Bristol, £8; Liverpool, £7 10s. MEAL.—Barley Meal: Bristol, £11 2s.; Hull, £10 15s.; London, £11 5s. Maize Meal: Bristol, £10 2s.; Hull, £9 7s.; Liverpool, £9 5s. Maize Meal (S. African): Liverpool, £8 15s.; London, £9 2s. Maize Germ Meal: Bristol, £10 10s.; Hull, £9; London, £9 2s.

### EGGS AND DEAD POULTRY.

Eggs are dearer both in the country towns and in London. Dead poultry shows little alteration except in London, where chickens are less plentiful and dearer. Week-end prices: Eggs per 120: English, 24s., 26s.; Irish, 23s., 24s.; Dutch all brown, 24s., 26s.; Danish, 18lb., 23s. 6d., 24s. 6d.; French, 20s., 24s. Fowls, London, per lb.: Surrey, 1s. 8d., 2s.; Irish, 1s. 2d., 1s. 4d.; Others, 1s. 4d., 1s. 8d. Ducks, 1s. 3d., 1s.

### EGGS.

Per Doz.—Ashford: First, 2s. 7d.; Second, 2s. 6d. Birmingham: First, 2s. 6d.; Second, 2s. 4d. Carlisle: First, 2s. 6d. Chelmsford: First, 2s. 6d.; Second, 2s. 4d. Denbigh: First, 2s. 8d.; Second, 2s. 6d. Derby: First, 2s. 2d. Dorchester: First, 2s. 6d. Exeter: First, 2s. 6d. Hereford: First, 2s. 3d. Hull: First, 2s. 1d. Ipswich: First, 2s. 6d.; Second, 2s. 3d. King's Lynn: First, 2s. 3d. Lincoln: First, 2s. 3d. Llandilo: First, 2s. 0d. Newport (Mon.): First, 2s. 3d. Norwich: First, 2s. 4d. Oswestry: First, 2s. 10d.; Second, 2s. 9d. Penzance: First, 1s. 10d.; Second, 1s. 9d. Salisbury: First, 2s. 5d.; Second, 2s. 4d. Shrewsbury: First, 2s. 9d.; Second, 2s. 6d. Skipton: First, 2s. 3d. Taunton: First, 2s. 0d. York: First, 2s. 6d.; Second, 2s. 3d.

### FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, 4s. 0d.; Second, 3s. 3d. Exeter: First, 1s. 9d.; Second, 1s. 6d. Hereford: First, 1s. 4d. Ipswich: First, 6s. 6d.; Second, 4s. 6d. Lincoln: First, 5s. 6d.; Second, 3s. 6d. Llandilo: First, 1s. 9d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 1s. 7d.; Second, 1s. 3d. Shrewsbury: First, 5s. 0d.; Second, 4s. 0d. York: First, 5s. 6d.; Second, 4s. 9d.

### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, 4s. 6d.; Second, 3s. 6d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 9d.; Second, 1s. 7d. Shrewsbury: First, 6s. 0d.; Second, 5s. 0d. York: First, 7s. 0d.; Second, 5s. 0d.

\* Per Head.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 6s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

Enquirer (Bethersden). The sample of Ground Oats is not a very good one, but you could hardly expect anything better at the price. (2) For table and egg production I think the Buff Orpington duck would be the best of the lot. (3) For table eggs, and vigor, I think you would find it hard to beat the Rhode Island Red. (4) The nest boxes should be 18 inches off the floor, then you would not find the hens jump in them to scratch when corn is given. (5) The Ground Oats will not want sifting for young chicks. (6) The mash hoppers are open all day.

H. T. (Derby). Limestone grit is the best for laying fowls. (2) If you are unable to obtain green food you could use sprouted oats as described in a recent issue of "Eggs" or alfalfa or clover meal in the mash, but these require something else as they are not complete substitutes for green food, therefore it is advisable to feed raw swede turnips with them. (3) Yes, clean rain water is "fit" for fowls to drink. (4) Once a year should be sufficient to creosote your houses. (5) Give equal parts Wheat, Oats and Kibbled Maize. (6) A gallon would be the best size.

H. E. M. (Port Soderick). For this purpose I think the best house would be of the type known as the "Lancashire Cabin"; the best size for your purpose would be 12 ft. x 8 ft. As to ventilation, read the article by Col. Hardy in the September 5th issue and that in this week's issue by M. M. (2) Your best plan would be to give the chicks free range after they are 6 weeks old, but if you can't do that they should be allowed 20 square yards per bird. I don't understand the first part of your question. (3) Yes, a house 30 x 20 would be a suitable size for 150 laying hens. (4) It is not advisable to feed pullets intended for breeding on a forcing mash at any time, it would certainly tell against them as breeders even if you brought them back to a mash suitable for

breeding stock the following season. (5) I think the best time to start artificial lighting would be the last week in October; there will, however, be a difference of opinion on this point. (6) I don't think you should give your birds as much grain as they can clear up in 15 minutes at 9 in the morning, it would be far better to give them a scratch feed, and limit the grain feed to 1½ ozs. per day. (7) I think you should buy these males, as if they are healthy and vigorous they are a bargain. (8) There will be no harm in creosoting the perches and dropping boards if you allow a few days to elapse before the birds are put into the house.

G. C. (Tavistock). The sample of mash you send is first class, the hoppers should be open all day, both for hens and pullets. (2) I don't think lice are the cause of your birds shaking their heads, it is far more likely to be a cold, or may be symptoms of roup; examine their mouths carefully, see if the nostrils are clear and then write me again.

M. W. (Starcross). We cannot reply through the post to non-members of the S.P.B.A. unless a fee of 2s. 6d. is enclosed. The Buff Rock should be Buff throughout, it may be a lemon or orange shade, the former is more favoured in the show-pen. The black feathers are certainly not a good point; you do not say whether you intend to show in the utility section or not. In the exhibition section your birds would have no chance.

Wry Tail (Beckenham). "I have a Leghorn cockerel bred from a hen which laid 246 large eggs in her pullet year. He is wry-tailed, but I am certain this was caused by the position of the perches. Both dam and sire were normal. My choice lies with this bird or one sired by the son of a 294-egg dam, but the eggs of the dam did not average two ozs."

If you are positive that the wry tail is due to the perch and is not a natural deformity, there will be no harm in using the bird, as an acquired characteristic is not inherited. As to the second cockerel, I do not see there is much to recommend him. You do not give his dam's record, which is most important. The cockerel's dam transmits fecundity, not his sire.

E. C. (Tewkesbury). I am sorry your letter came back, but we are compelled to give instructions that unstamped or under-stamped letters shall not be accepted. We receive a very large number of these. I have examined the sample sent. It seems to be nothing but ground cereals, with some condiment added. Whether it is the recipe of a Canadian farmer or not, I would advise you not to pay 36s. per cwt. for it. Something similar was sent me not long ago as the recipe of a South African farmer who had obtained it in some mysterious way from the natives. I am inclined to think it contains a little carbonate of iron, and is coloured with Venetian red. Perhaps the next time it turns up it will be as the recipe of a Polynesian witch doctor.

G. A. W. (Waltham Cross). "Is poultry-keeping a profitable thing to the man who cannot give his whole time to the business? My position is this. I am

having some chickens kept in the back garden, so that I can get a little experience in chicken rearing. Next year I propose moving (if possible) to a house farther into the country where I can keep, say, a hundred, and, say, twenty ducks and a few geese. I have to leave home at 8 o'clock in the morning for business, and arrive home at 6 o'clock in the evening. My mother could feed the poultry during the day. With good birds, and by means of selling eggs for eating, eggs for hatching, chicks, pullets, table birds, etc., would it become a paying proposition. Of course, I have from 2 noon on Saturday to myself?"

If you do not attempt too much, G. A. W., there is no reason why you should not make your poultry profitable, even with the short amount of time you can devote to them, but I would advise you to at all events leave the geese and ducks alone, and concentrate your attention on the fowls until you know something about them. You will not be able to sell table poultry, day-old and sittings to any extent, but would be far wiser to give your attention to the commercial egg, as your main line. You will be wise to have one breed only, and I should recommend the Rhode Island Red.

S. T. T. (Heywood). I can hardly advise you as to whether it would be wiser for you to buy the formula ready mixed or to mix it yourself unless I know what you are likely to pay for the ingredient. Col. Hardy, writing in a contemporary a few weeks ago, said that he could mix it for 14s. 5d. per cwt., and he is only buying in small quantities. You can see all the meals you ask for advertised in "Eggs." Yes, the Clover you mention is a good one. If you cannot get Gluten, you can use Uveco. You can become a member of the S.P.B.A. at any time. The financial year has just begun.

H. W. S. (Bures). I think the size of egg is entirely due to the pullets maturing too soon, and not to lack of stamina or any fault in breeding. There will be some improvement later, but as you know when production begins development is checked. The only thing you can do now is to feed them well without forcing them. Do not let the Fish or Meat Meal exceed 5 per cent., and if they have plenty of range, I should give them none at all for the time being.

E. B. (Gravesend). The "X" means "fertilised by," so that your pullets are from Padman hens fertilised by a Barron male. (2) The old hen is suffering from cloacitis, and infectious venereal disease. It is very resistant to treatment, and you would be well advised to kill her and burn her, but as you say you are "fond of this sort of thing," the best plan will be to isolate the bird; wash the discharge from the skin and feathers with warm water, and apply some carbolic ointment. Inject a 2 per cent. solution in the cloaca twice daily.

T. L. (Shrewsbury). There is no reason why Columbian Wyandottes should not be bred to lay as well as the whites. They lay a slightly larger egg as a rule. They originated in a cross between the Light Brahma and the White Wyandotte. (2) A simple tonic is 2ozs. of sulphate of iron dissolved in a quart of water. A

teaspoonful of the solution should be given to each pint of drinking water for two or three weeks.

A. K. F. (Berkhamstead). Of the four samples you send I prefer "A.B." but C. and D. are both very good value at 14s. 3d., without clover, and 15s.

W. S. (Alton). "I have been keeping pure breeds semi-intensively and am now forced to give up all grass space except for chickens and breeding pens, so am going in for first crosses. I have 24 R.I. Red hens, which average 180 as pullets, and 4 White Leghorn cockerels, 1922. I shall mate up 2 cockerels in January for egg production, and in the autumn mate the other two with the same hens to hatch early spring chickens in 1924. (1) How many weeks will March pullets take to mature? (2) Will they prove as good layers as Rhode Island Reds? (3) Will the Autumn mating be fertile on both sides? (4) The following year I shall cross Leghorn cockerels with Sussex, which cross do you prefer for a dual purpose breed?"

Your March-hatched pullets with this cross should be laying if properly reared at 5 to 5½ months old. (2) Crossing is always a bit of a gamble, and I cannot say definitely that they would be as good layers as the Reds, but I should expect them to be. (3) The dams are more likely to fail you in the Autumn than the sires, but if you get them well through the moult I do not think you need worry on that point. (4) I prefer Light Sussex hens mated to W. Leghorn males to any other cross.

Bentley (Panteg). A good wet mash for your birds, which will include "Uveco," would be: 2 parts Sharps, 1 Bran, 1 Uveco, ¼ each Ground Oats and Fish Meal. I would not give them whole maize at any time, but I should prefer equal parts Wheat Oats and Maize as the grain food and should limit it to 1½ ozs. per head per day. (2) It would not be advisable to mate the cockerels now, let them be well matured first; in the middle of January will be ample time to mate them. (3) I prefer a good sample of limestone grit to cockle shell.

L. J. S. (Liverpool). In reply to your question re Correct Colour of Salmon Faverolles. In both sexes Beak should be Horn or White, Eye Grey or Hazel, Face, Ear-lobes and Wattles Red, Shanks and Feet White. In the cock, Beard and Muffling Black, ticked with white, Hackles Straw colour, Back and Shoulders a Tortoiseshell colour, a mixture of black, white and brown; Breast, black (not ticked with white), and the same for thighs under-colour; and tail, Wing bow, straw colour. In the hen, Beard and Muffling, Creamy white; Head and Neck-Hackle, a wheaten colour, striped with same colour of darker shade; Back and Shoulders, the same, the colour running lighter on the thighs, while the breast, thighs and under-parts fade away to a cream colour; the Tail, a darker wheaten-brown. The points for Beard and Muffling count 45, and so are the most important. Serious defects are skin or legs any other colour than white. I do not know of any book on the breed, or whether the club still exists.



## DUCK QUERY.

D2. (Aylesbury). Asks for a ration for laying ducks, but does not mention the breed. I would sooner that Correspondents when enquiring as to mashes should mention the breed of their ducks, as some breeds stand a more concentrated ration than others.

For instance, a Runner could be safely given a mash which in the case of an Aylesbury might easily prove to be too fattening.

If your Ducks, D2, are one of the lighter breeds you would find the following a useful and withal a reasonable priced mash:—

Bran 2, Midds. 3, Finely Ground Oats or S.G.O. 2, Maize Meal 2, Fish Meal 1 part.

If convenient add to this mash any boiled vegetable scrap you may have up to 25 per cent.

All parts are by weight.

If your Ducks are "heavies," add another part to both Bran and Middlings.

As regards the illness of your duck. From your description I should say it has just a case of the Lameness to which ducks are very subject. It is a kind of rheumatic cramp. If you had examined him you would have found inflamed ankle joint in the lame leg, or possibly at the knee.

All such cases should be put by themselves into a dry shed or some such place. Dose with salts and 7 per cent. of either dried yeast or cod liver oil added to the mash. They generally come round again in about a week.

I forgot to mention that the mash advised above should be given once a day at night, as much as the birds will eat eagerly. If on free range a little corn, mixed wheat or oats and maize, should be given in the morning.

## POST-MORTEMS.

B. A. F. (Mackenzie). The Buttercup hen had tuberculosis of the liver; you will realise that it is infectious, and must take precautions accordingly.

W. Williams. The pullet had congestion of the lungs, also peritonitis, it had ruptured a very small yolk sac, but that would not cause blood inside the egg. Blood in eggs is usually caused by the rupture of a small blood-vessel either in the ovary or oviduct. It is usually unimportant, but sometimes it occurs in cancer of the ovary. However, this bird's ovary was very healthy.

F. A. (Tatnall). The chicken had dropsy in the loose tissue under the skin. Its organs were healthy, and I think it had a weak heart.

F. Fox. Your hen had broken a yolk sac internally, which caused peritonitis. There were also the remains of a broken yolk in the oviduct. She had enlarged kidneys and spleen.

A. Billingham. A hen with no address inside, which I believe was yours, had (1) air sac disease, there being innumerable mites all over her air sacs; (2) internal gout, her kidneys being blocked as the

result of too much animal food; (3) intussusception which means that one piece of the intestine into the part below and so causes a blockage. This may have been due to wrong feeding also. As other birds may have air sac mites, if you wish to try treatment, please communicate with me, and enclose stamped envelope.

## APPLICANTS FOR MEMBERSHIP.

- Howard, J., East Rudham, Near King's Lynn.  
 Bird, G. H., Acton, Sudbury, Suffolk.  
 Swallow, F., Colne View, Lowergate, Longwood, Huddersfield.  
 Beaumont, C., Bridgefield House, Paddock, Huddersfield.  
 Burton, Miss M. H., Willow Farm, Palling-on-Sea, Norwich.  
 Cole, C. A., South View Poultry Farm, Ash Lane, Hough Green, Widnes.  
 Leason, Miss C. M., Yew Tree Farm, Leigh, Stoke-on-Trent.  
 Rymer, Mrs. F., Marton Bridge, Stillington, York.  
 Evans, Mrs. B. L., Dancers Hill Farm House, Barnet.  
 Oakes, Miss A. M., Cowley, Middlessex.  
 White, Arnold S., 8, Brancote Road, Oxton, Birkenhead.  
 Gibson, Edward H., c/o Mr. F. W. Sewell, Gordon Lodge, Basildon, Billericay, Essex.  
 Ogden, C., c/o E. N. G. Harper, Wagesbarne, Rotherwick, Hants.  
 Young, Miss, Uphill Cottage, Hawkinge, Folkestone.  
 The Grove Poultry Farm, Grendon Underwood, Nr. Aylesbury, Bucks.  
 Harman, Mrs. E., Foxley Cottage, Binfield, Berks.  
 Long, Mrs. N. D., 92, Nursery Road, Bishop's Stortford, Herts.  
 Atkinson, E., Middleton-in-Teesdale.  
 Cayley, Vice-Admiral G. C., Lanarth, St. Kew Highway, Cornwall.  
 Worth, Gilbert J., Rosecot, Corfe Mullen, Nr. Wimborne, Dorset.  
 Luckham, F. H. J., Parsonage House Farm, Joy Lane, Whitstable.  
 Jennings, J. W., "Kalings," New Marston, Oxford.  
 Sayer, Mrs. F. M., Uplands, 42, Sydenham Hill, Kent.  
 Stronge, Mrs. Norman, Lizard Manor, Anghadowney, Co. Londonderry.  
 Parris, E. N., Danecroft, High View Road, Lightwater, Bagshot.  
 Pope, George Lewis, Church End, Haddenham, Bucks.  
 Picken, Geo., "Shewalton Head" P.F., Ayr Road, Irvine, Ayrshire.  
 Wilson, Jas., "Shewalton" P.F., Ayr Road, Irvine, Ayrshire.  
 Lyon, Lt.-Col. J. Hartley, The Leys, Fordingbridge, Hants.  
 Hunter, G. T. W., Easton, Grantham.  
 Meeks, G. J. W., 13, Cecil Crescent, Harfield, Herts.  
 Bowden, J., 5, Chiltern Road, Hitchin, Herts.  
 Cook, J., 1, Front Street, Browney Clooliery, Durham.  
 Fox, E. T., "Lanesboro," Brislington, Nr. Bristol.  
 Greenless, Miss J. C., Whiterigg, St. Boswells, Roxburghshire.  
 Wainwright, T., 2, Argyle Street, The Allotments, Stoke-on-Trent.  
 Carpinael, Capt. E. E., Afton Manor, Freshwater, Isle-of-Wight.  
 Crosthwaite, B. O., Uplands, West Derby, Liverpool.  
 Armstrong, R. E., Hillside Poultry Farm, Joel Lane, Hyde, Cheshire.  
 Gabb, Capt. J. D., "Berry," Crown Hill, Nr. Plymouth.  
 Midland Cattle Products Co., Ltd., Bordesley Street, Birmingham.  
 Thomas, Rev. E. D., Tamerton Rectory, Holsworthy, Devon.  
 Fraser, G. T., Downfield, Brockweir, Gloucestershire.

## CORRESPONDENCE.

## VENTILATION OF HOUSES

(To the Editor "Eggs.")

Dear Mr. Newman,—The letter signed M.M. in your issue of the 13th inst. deserves an answer. I claim no originality for the scheme I advocate,

except perhaps for the substitution of perforated Zinc or glass, under certain conditions.

It is the one recommended by the Ministry of Agriculture, and a model of it can be seen in Whitehall Place.

I do not think the latest American plan so good, for the following reasons:—

1. Presuming the house to face South, little, if any, aspiration of the air beneath the dropping board will take place except with a Northerly wind, when M.M. would doubtless partially close the ventilator.

Consider what happens in still and frosty weather. Cold air enters slowly under the eaves. Some of it at once begins to fall by its own weight, as a down draught behind the dropping board. The rest drifts slowly above the protecting boarding thoroughly chilling this unless it is made of thick wood. There is no more certain method of producing down draughts than an ice-cold ceiling.

From the time of Tobin onwards, it has been recognised that cold air must enter below to ensure proper natural ventilation, on account of its relative weight, but the level of entry should be above the occupants on the floor to avoid draughts and discomfort. This the system I advocate secures, both during the day and when the birds are perching.

2. About 5 square feet more wood would be required for each foot run of the house, the expense of which is hardly negligible.

Yours sincerely,

F. W. HARDY.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### SIXTEENTH LIST.

Carried Forward	£694	8s.	9d.
		s.	d.
Denby Collins	...	10	0
E. Kinrade	...	2	6
P. W. Rowley	...	2	6
S. Whitely	...	2	0
W. Ellison	...	5	0
Mrs. N. M. Durrant	...	2	6
Arthur A. Black	...	20	0
E. Hornby	...	5	0
Mrs. March	...	5	0
Capt. R. Elmslie	...	7	4
Miss O. Stewart	...	2	6
W. H. Teat	...	1	0
Frank Woodard	...	15	0
E. F. Bradford	...	5	0
Rev. M. O. Boyd	...	42	5
G. C. Kirtley	...	5	0
R. F. Payne	...	15	0
Mrs. Graham	...	2	6
Miss E. Burt	...	2	6
H. Jackson	...	1	0
Henry Shutt	...	10	0
Arnold S. White	...	20	0
A. C. Stewart	...	5	0
A. F. C. Holdaway	...	100	0
W. Spencer Graves	...	2	6
Harold R. Smith	...	5	0

	s.	d.
H. E. O'Meara	5	0
Gilbert J. Worth	2	6
Mrs. C. A. Morrison	5	0
W. R. Harvey	2	0
R. Borner	2	0
G. L. Pope	4	0
F. W. Egerton	5	0
Frank Smith	1	0
Tom Partington	2	4
Capt. W. G. Bagnell	10	0
Mrs. E. Ashwell	5	0
Mrs. Dyer	5	0
J. Bowden	2	6
J. A. S. Belling	1	0
A. Brydon	2	6
J. H. Ridley	3	11
E. Gibson	20	0
S. J. Peters	2	6
Chas. W. Turner	7	4
Mrs. L. J. Smith	5	0
G. N. Holme	5	0
J. L. Gubbins	5	0
Miss B. Rhodes	4	0
Capt. M. Selby	5	0
Oswald Hope	2	4
T. V. Ramsey	1	10
Miss C. M. Woolnough	2	6
Miss D. McTurk	2	6

Total ... £715 6 9

## Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the flock is housed. For maximum egg production the houses must be roomy, well-ventilated, drip and draught proof, and thoroughly stable even in the highest winds. Moreover, for operating on even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house.

but only in

## SLADE HOUSES

do you find them at a price which is economically sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter section's being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing anything of factory overheads the saving here will be obvious.

## SLADE SYNDICATE, LIMITED,

(Directors: E. J. W. and M. W. Slade),

28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**ROUGHTON via NORWICH.**

**Rev. F. KENNEN, S.P.B.A.,**  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from dam's 273-250 eggs. Sire's Dam, 255 eggs in pullet year.  
Pullets No. 50, winner of Special and 1st Prize, Sept. 9th, 1922. Pen No. 1, headed by Male from 250-240z. hen (Latham). Pen No. 2, later hatched, but with special forward male. Orders now taken for Sittings, Day Olds, and Early Pullets and Cockerels. Prices and Records given on application.

**GEO. N. WORTERS,**  
UPLANDS POULTRY FARM, ROTHER-  
FIELD, SUSSEX.

LIGHT SUSSEX, RHODE ISLAND REDS,  
LEGHORN - SUSSEX, LEGHORN - R.I.E.,  
FAWN AND WHITE RUNNER DUCKS.

Pullets and Stock Birds from trap-nested  
hens.  
Over 300 Trap-Nests in use.

**Miss HARDMAN,**  
Member, S.P.B.A. and N.U.P.S.,  
WYKE, DUNSFOLD, near GODALMING

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

### F. A. HULME.

#### WHITE LEGHORNS.

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

**Heathfield Commercial Egg Farms**  
**HEATHFIELD, SUSSEX,**

#### WHITE WYANDOTTES.

**L. WILLIAMS.**  
Roston Poultry Farm.  
GRANTHAM.

Speciality:  
**STAMINA AND SIZE OF EGGS.**

#### WALTER FOSTER.

Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.  
Breeder of Pedigree Trap-nested Large  
Egg.

White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.  
Cockerels and Pullets.  
Breeding Stock of the Highest Class.  
Particulars upon Application.

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPHAY POULTRY FARM,**  
TORQUAY, SOUTH DEVON.

**Coaley Poultry Farm,**  
GLOUCESTERSHIRE. Est. 1894.

White Wyandottes, Buff Orpingtons.  
White Leghorns, Light Sussex.  
Rhode Island Reds, Black Leghorns.  
Breeding Pens, Pullets, Cockerels.

COALEY FAWN DUCKS (1st at Bentley  
for Six Months).

### HOLMES and HOLMES,

S.P.B.A., N.U.P.S., L.B.P.S.,  
T.A. FOXDELL, CHALFONT, ST. PETER'S  
Breeder of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.

Telephone: Chalfont St. Giles 54.

**WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.**

Offers W. Leghorn Yearling, at 10/6 Two  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.  
Bankers: Messrs. Barclay and Co., Ltd.  
Basingstoke.

**A. F. C. HOLDAWAY.**

#### R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.C.  
Pinchurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens  
Enquiries Invited.

### K. E. FIELD-HART

#### WHITE LEGHORNS

Breeding Hens for Sale in Sept.

**THE LIMBERLOST,  
HEATHFIELD, SUSSEX.**

#### Mrs. HARRY KENT,

Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.  
Telephone: 23 Handcross.

Exhibition and Pure-bred Trap-nested  
Utility Poultry.  
LIGHT SUSSEX.  
WHITE LEGHORNS.  
BLACK LEGHORNS.

Speciality.—Three Months' Old Pullets from  
15s.  
Illustrated Catalogue Post Free.

**MISS ARGLES, N.U.P.S., B.C.**

Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years in  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.

From 10/-, according to age and pen.

**ANSTEY POULTRY FARM,**  
ALTON, HANTS.

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20-21 Bantams. Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth  
Rocks, and all other Varieties.  
Also all kinds of Water Fowl, Fancy  
Pheasants, White, Black Winged Blue and  
Specifer Fowl, Partridges, etc. Send  
Threepence for Reply. Orders booked  
now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success

### LIGHT SUSSEX PULLETS.

Some Really High-Class UTILITY  
PULLETS, Jan. Feb. & Mar. Hatched  
Prices from 21/- each.

Inspection Invited.

**W. P. HARMER,**  
HADLOW-DOWN, SUSSEX.



### Exhibition and Pure-Bred Utility Birds.

LIGHT SUSSEX.—1st and Sp., Lewes. 1st and Sp.,  
Redhill. 1st and Sp., Tunbridge Wells. 2nd  
Utility, Crystal Palace, etc.

WHITE LEGHORNS.—1st Redhill. 1st, Uckfield. 1st,  
Sussex Agricultural, etc.

BLACK LEGHORNS.—1st and Sp., Lewes. 1st Royal  
Counties. 1st, Royal. 1st, Tunbridge Wells,  
etc., etc.

TOULOUSE GESE, AYLESBURY DUCKS.

COCKERELS: 21/- to £3 3s. 6d.

PULLETS: 17/6 to £2 2s. 6d.

All Birds sent on Four Days' Approval.

All Birds Trap-nested. Only L2 Birds bred from.  
Please note Change of Address, and when in our  
neighbourhood do not fail to visit our new 110 ACRE  
MODEL FARM. Write to-day for Free Illustrated  
Price List to

### MRS. HARRY KENT,

**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**  
Station: PEVENSEY or BEXHILL.

## Classified Advertisements.

## PREPAID RATES.

d. per word—Minimum charged 1s. Box fee. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

DAY-OLD CHICKS ... .. 9d. extra.

DAY-OLD CHICKS ... 1s. extra.

DAY-OLD CHICKS 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

## SERIAL RATES.

1	insertions for the price of 2
2	" " " "
3	" " " "
4	" " " "
5	" " " "
6	" " " "
7	" " " "
8	" " " "
9	" " " "
10	" " " "
11	" " " "
12	" " " "
13	" " " "

FOR SALE.  
PULLETS.

100 R.I. REDS, April hatched; 15s. each. Also 80 WHITE LEGHORNS, end April and early May hatched; from hens with trap-nest records of 194 to 258; 18s. 6d. each. Limited number extra special, and fit for entry, with Laying Tests; 25s. 6d. each; all splendid stock.—C. D. Cheesbrough, Carlton, Nottingham.

150 Beautiful Cross-bred Pullets; state requirement; 6s. 9d., 7s. 6d., 9s. each, carriage paid.—Joy, Teall Street, Wakefield.

PEDIGREE UTILITY  
PULLETS, 1922.

50 R.I.E. and WHITE LEGHORN Pullets, four months old, sired by Golden's special stock birds; sisters averaged 98 in four winter months; unlimited grass range; 10s. 6d.; selected, 12s. 6d. Cash with approval, or deposit with Editor.—T. F. Wildman, M.S.P.B.A., Newbold Verdon, Leicestershire.

BUFF ORPINGTON, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

WHITE WYANDOTTE  
PULLETS.

March hatched, from L2 dams; sires from Tom Barron's pen 8; 15s. each. A few April hatched at 12s. 6d. Also some 1921 Hens, all splendid layers; 10s. 6d. each. Overstocked, must sell. Reduction on more than six.—Miss Hardman, Dunsfold, near Godalming.

Cook's 270-egg (s.c.) R.I.E.; Cam's 290-egg WHITE WYANDOTTES, 1922 Pullets, 10s. 6d.; guaranteed good healthy birds.—Simms, M.P.C., M.S.P.C., Heathfield, Sussex.

Twelve LIGHT SUSSEX, March and February, 1922; well-grown and healthy (Rothschild's); 20s. each; £11 the pen.—The Dales Poultry Farm, Syston, Leics.

S.c. R.I. RED Pullets, from my Registered Pen hatched April 3rd; 10s. 6d. each.—Marchant, Anmer, King's Lynn.

## SCALE OF ADVERTISEMENT CHARGES.

DISPLAYED ADVERTISEMENTS.—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 9d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

ADVERTISEMENTS must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16 by first post FRIDAY MORNINGS, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

Six WHITE WYANDOTTE Pullets, April hatched; Metcalfe's strain; from £2, trap-nested hens; room wanted; 10s. each; approval.—Miss Walker, S.P.B.A., Hayton House, Carlisle.

BUFF ROCK Pullets, February and March hatched, 1922, from L2 birds (average 187 eggs); price 17s. 6d. each.—Worters, Uplands, Rotherfield, Sussex.

## SIX MONTHS' PULLETS.

LIGHT SUSSEX (Mullock), point of laying; daughters of winner, 2nd prize, Llangollen; £1 each, carriage paid.—"Brookwood" Egg Farm, Pontfadog, Denbighshire.

WHITE WYANDOTTES, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlishaw, Oak Lodge, Loudwater, Bucks.

Miss MARY FOSTER CLARK, Boughton Mount, Maidstone, offers a few of her choice LIGHT SUSSEX (Grant's strain); Pullets from 20s., Cockerels from 30s.

Magnificent 1922 LIGHT SUSSEX Pullets, from L2 hens, by 267-egg sire, from 12s. 6d. each.—Douglas Ann, Old Thatch, Hellingly.

50 beautiful well-developed single-combed WHITE WYANDOTTE Pullets, from trap-nested hens, mated to cockerels from 260-egg hen; January-April hatched, from 12s. 6d. each.—E. Maurice Wood, Sleights Farm, Huby, Leeds.

Pullets, 1922, thousand head, R.I.E.'s and LEGHORNS.—Stamp, full particulars, Longley, Ashwell, Herts.

For Best Value in Pullets, see our advt. page one of this issue.—Cray Poultry Farm, Ltd., Sidcup.

Over Stocked. Early May and June Pullets; WHITE and BROWN LEGHORNS; cheap; price and particulars free.—Machin, M.S.P.B.A., 72, Watlands View, Porthill, Stoke-on-Trent, Staffs.

## HENS.

7s. 6d. (HATCHED, 1921.) 7s. 6d.

7s. 6d. (HATCHED 1921.) 7s. 6d. 1s. Head.

60 W. LEGHORNS (Cooks St. Mary Cray, direct), splendid hens, in grand condition.—G. Hanson, Brooklyn Egg Farm, Kilby, Leicestershire.

WHITE LEGHORNS  
(BARRON'S).  
BLACK LEGHORNS  
(UPJOHN-BIRKETT).

All records above 130 for nine months Selected birds only. 15s. and 17s. 6d. each. Make excellent breeding stock. A few 1920 Hens, each breed 7s. 6d. each. Any sent on approval.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

WHITE WYANDOTTE Hens, 100; Cam, Barron, and Latham strains; March, 1921, hatched; 6s. each, carriage paid. Approval.—W. F. Morris, Brook End Farm, Abberley, Worcester.

WELLINGHAM HOUSE  
POULTRY FARM.

WHITE LEGHORNS, 1921 and 1920. Selected Birds only, all layers of large eggs, guaranteed no illness whatsoever, 15s. and 7s. 6d.; reduction on quantities.—Miss Malcolm, Ringmer, Sussex.

## COCKS AND COCKERELS.

WHITE LEGHORN COCKERELS, from Cam's extra-special Pen No. 2, April hatched, £1 1s.—Major Salkeld, Holme Hill, Dalston, Cumberland.

Stock Cockerels, WHITE LEGHORNS (Padman-Barron's), RHODE ISLAND REDS (Measure's). March and April-hatched. 10s. 6d. and 7s. 6d. each, carriage paid.—Miss Turner, Dale Hall, Ipswich.

Cockerels, March-May hatched, 100 for immediate disposal; WHITE LEGHORN, WYANDOTTE and RHODE ISLAND. Pure strains. Pedigrees given.—Wheeler, Hooton Hey, Great Sutton, Cheshire.

Cockerels, WHITE WYANDOTTE, WHITE LEGHORNS, February and March hatched; 12s. 6d., 15s. Pedigrees on application.—Harmes, Moneysland Poultry Farm, Crawley.

Stock Cockerels. Pure WHITE LEGHORN (Padman), March; 12s. 6d.; April, 10s. 6d.—Francis, 102, Dunvegan Road, Eltham, S.E.9.



**Dr. BALDWIN'S DIRECT.**

WHITE WYANDOTTE Cockerels, February and March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 21s. each, carriage paid; September and October. — Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

BLACK LEGHORN Cockerels, March hatched; Margerison's special pen direct; pedigree given; enquiries solicited.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.

RHODE ISLAND Red March Cockerels; descendants of "Ruby Queen," and gold medal winners; 17s. 6d. each. Barron's WHITE LEGHORN April Cockerels; 12s. 6d. each.—Tompkins, Hutton Rudby, Yorks.

**BUFF ORPINGTON COCKERELS.**

1922, from L2 hens, sired by brother of Thomas's World's Record Hen, 343-egg; 20s., 30s., 40s. each.—Wheatley, S.P.B.A., Barnwood, Gloucester.

Cockerels, BLACK MENDELS (Smart's), BLACK LEGHORNS, BUFF ORPINGTON. Write for particulars. — Button, "Annadale," Long Eaton.

Pure WHITE LEGHORN Cockerels, April hatched; vigorous birds, reared open range, new ground; 7s. each; three, 20s.—Moore, Pidham Poultry Farm, East Meon, Petersfield.

**1st IN WYANDOTTES.**

100 per cent. First Grade Eggs, Single Bird Test, Cheshire Section; cockerels related to above from 24oz.-egg; heavy layers.—Captain Heseltine, Ropley.

**WHITE LEGHORN COCKERELS.**

Hatched early February, from eggs supplied by Dr. Baldwin; fine healthy birds; reared on free range at 600ft.; 25s. each.—Capt. F. Pardoe, Bradley Court, Mitchelldean.

RHODE ISLAND RED (Newman), WHITE LA BRESSE (Hollam Chattertris); strong birds; February, March and April hatched. Prices from 10s.—J. Goosey, Blatchington Court, Seaford.

Pedigree BROWN LEGHORNS; 17s. 6d. each, carriage paid; beautiful birds. — Huddleston McKellar, Lingfield.

**EXCHEQUER LEGHORNS.**

For Sale, splendid Cockerels, from Millar's Extra Special Pen direct. No finer stock can be bought of this coming breed; 10s. 6d. each.—J. J. Sutton, Bradmore, Wolverhampton.

Stock Cockerels from three different S.P.B.A. registered pens; all Barron strain; 17s. 6d. and 21s. Hampers charged, but returnable. Deposit, Editor.—R. Densham, Rogers Wood, Fawkham, Kent.

**SPECIAL OFFER OF PEDIGREE COCKERELS.**

WHITE LEGHORN, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 223-255; winter records 79-109. Average weight of eggs, 2½-3-8oz. Only a few March and April hatched left; 10s. to 15s. each, carriage paid. — Bealing, Jesmond Dene, Burgess Street, Bassett, Southampton.

Pedigree Utility WHITE WYANDOTTE Cockerels, for Sale; February hatched; Bostock Smith's strain direct. Grand Type. Price 15s.—Norris, 34, Lodge Hill, Manning's Heath, Horsham, Sussex.

SILVER CAMPINE Cockerels, early April, 1922, hatched; from the chicks supplied by Rev. Lewis Jones, Neyland; 21s. each. — Apply, Browning, Fairthorn, Marchwood, Hants.

**BREEDING PENS.**

Fine pen BLACK BRESSE (Caple's strain), five hens (21) and cock; December record 18 per hen; would exchange Leghorns; good strain, or sell.—M.S.P.B.A., Little Meadow End, Ridgewell, Essex.

Six Pedigree WHITE LEGHORN Hens; genuine L2 birds, with unrelated high fecund cockerel; from 42s.—Cray Poultry Farm, Ltd., Sidecup.

**APPLIANCES.****TRAP-NEST FRONTS.**

About 70 Stanworth-Soole Trap-nest Fronts for Sale. Cleaned, Disinfected. 2s. 6d. each, f.o.r.—Severn Storr, Winnaway Farm, Harwell, Stevenston, Berks.

**ROOFING FELTS**

"Superfelt," Ashwell, Herts.

**WIRE NETTING**

Best galvanised. British only; stamp list.—Superfelt, Ashwell, Herts.

**SUPERFELT**

Builds vermin and draught-proof houses; without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

**GLASS SUBSTITUTE**

Samples, stamp. — Superfelt, Ashwell Herts. Reduced.

**"ENOTS" SPRAYERS.**

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

**GALVANISED CORN BINS.**

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 20s. 4 cwt., 26s. 6d. All have hinged lids. All carriage paid, three or over 5 per cent. off list.—Hudson, Sheet Metal Works, Patricroft, Lancs.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it. Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Ag. Planok Cold Brooder. Vacancy for Pupils."

Wanted, offers for Latest Pattern SOOLIE STANWORTH INCUBATOR, 3,000 egg capacity; used one season; excellent hatchery, perfect condition. — Box 15, "Eggs," 94, Farncombe Street, London, S.E.16.

390 GLEVUM SELF-TURNING TRAYS, galv. or oil; £12.—Morrell, Barming, Maidstone.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or China Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

"ELECTRO-AUTOMATIC" Self-Generating Lamp for egg testing; no batteries; no refills required; 50s. each, post paid.—Clifford de Kusel, 1, Stenbridge Road, Anerley, S.E.20.

30 STANDARD SIZE EGG BOXES, English make, complete with divisions; some never used; 4s. 6d. each, f.o.r., or £6 the lot.—Miss Dora Seed, River Poultry Farm, King's Lynn.

**DUCKS AND DRAKES.**

Wilson's RUNNER Ducks and ANCONA Fowls, probably world's best appearance; coupled with egg production; list free: Duck Book, is.—Rev. John Wilson, Hutons Forest Rectory, Penrith.

FAWN and WHITE RUNNER Ducks 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

Fawn and White RUNNER DUCKS, April, 1922, Simon-Hunter X Holdich 300 strain; 12s. 6d. each, carriage paid on six.—Pearson, S.P.B.A., Whitelimes, Cranbrook, Kent.

White INDIAN RUNNERS, 1922 hatched, 4 Ducks and Drake (Taylor's); Price £2 10s. Also Mated pen Roman Gander and two Geese, £3 10s.—Cartwright, Welland Poultry Farm, Seaton, Uppingham.

Fawn and White RUNNER DRAKES, April, 1922, hatched, from flock averaging 216 eggs; 7s. 6d. each, carriage paid.—Turnill, Eye, Peterborough.

A number of FAWN and WHITE INDIAN RUNNER Ducks, 1922 hatched; also unrelated Drakes (Upjohn-Shaw), three to five months old; 12s. 6d. each.—Tomlinson, Claydon Poultry Farm, Newcastle, Staffs.

and SON offer Pedigree FAWN and E RUNNER Drakes, from their which produced world's record 408 eggs in 411 days, etc.; from 10s. each. Inspection invited.—Shoreham.

WHITE RUNNER Ducks, May-June; 6s., 7s. 6d. each. AYLESBURY and Drakes, March-April; 10s. 6d. each.—Free, Wye Lodge, Ashford, Middlesex.

BUFF ORPINGTON DRAKES. A year's hatch; fine birds; 15s. each. D. Pilkington, Dean Wood, New.

1st IN BUFF ORPINGTONS. National Laying Test, 1017 eggs in ten this; 1st, Special, County Utility Cup, Chester; pens, Stock Birds. — Captain Mitine, Ropley.

April, 1922, WHITE RUNNER Ducks; 6d., 21s. each, according to parents' words.—Douglas Ann, Old Thatch, Hellingly.

our KHAKI-CAMPBELL Drakes, hatched in eggs of birds from Mrs. Campbell average 265 eggs each, 15s. each.—Barker, Wyne, Tonbridge.

WHITE RUNNER Drakes, bred for heavy production; full brother to first prize, Agness, and third prize in class of 20, 1921; 21s. each.—Miss Wigram, Ordsall, W. L. Ford.

NATIONAL DUCK LAYING TEST. Pen 49, consisting of Five WHITE RUNNER DUCKS have averaged just over 31 EGGS EACH IN 56 DAYS.

acks No. 241 laid on 116 consecutive days. 1000 Ducklets and Drakelets now; also Khaki-Campbell Drakelets; all at moderate prices. Duck Laying Meal, 22s. per cwt., D.R.—Capt. Negus, Upper Longdon Poultry Farm, Rugeley, Staffs.

"GOSLINGS." Well-grown, April hatched, Goslings, from Good Layers, from 12s. 6d.—Hayes, Four Marks, Nr. Alton.

PIGEONS. UTILITY PIGEONS, Mondains, large, blue birds; related to Bingley Hall prize winners; 20s. to 20s. pair; Squeakers, 5s., 6d.—Fidler, Colehill, Wimborne.

RABBITS. Lester Spurgeon, Wistlers Wood, Woldham, Surrey, breeder, pedigree giant guinea Bevers. Youngsters for Sale.

Breed Rabbits for fur. I supply Pedigree stock, and buy your felts; grand doe, mated to winning buck; 50s.; maiden doe, s.; youngsters, 20s. pair.—H. Bonny, S.P.B.A., Hillcrest, Bexley Heath.

PIGS. Young Pedigree Large BLACK GILTS; 5s. each. Eligible registration.—Douglas Ann, Old Thatch, Hellingly.

## FOODS.

### OYSTER SHELL.

Best American, f.o.r. London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

### GRANULATED CHARCOAL.

Guaranteed Quality, half-cwt., 12s.; one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

Real Quality. LAYING MASH, FATTENING MASH, MOULTING MASH, FISH MEAL; used by experts; 21s. cwt.; 12s. 6d. half-cwt., carriage paid. — Market Corn Stores, Teall Street, Wakefield.

### SPECIAL VALUE IN POULTRY FOOD.

GOOD OLEAN WHEAT SCREENINGS, 11s. per 112lbs. Guaranteed Sussex Ground Oats, 17s. per 112 lbs. Bags Free. Carriage forward.—Marland and Co., Poultry Food Millers, Mossley, Manchester.

### DERBYSHIRE LIMESTONE GRIT.

3s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

NITROPHOS PURE FISH MEAL, Special Offer Two Weeks Only, 18s. cwt.; 9s. 6d. 1/2 cwt.—Corn Stores, Teall Street, Wakefield.

### WHAT DO YOU PAY?

Finest Quality MEAT or FISH MEAL; 17s. 9d. cwt., f.o.r.; 5cwt. carriage paid. Samples, stamp.—Douglas Ann, Old Thatch, Hellingly.

### PLEASE NOTE

that our Special Advertising Offer (including the donation to the N.P.I. Fund of 10/- for every ton sold) of Sussex Ground Oats has been extended until the 4th October. Prices: 19/- per cwt.; 90/-, 5 cwt.; £17/5/- per ton, carriage paid any N.E.R. Station, 1/- per cwt. extra other lines. Quality. Guaranteed pure stone ground from sound oats only, approved of by many of our leading poultry keepers and food experts. The big rush of orders during August caused some delay in despatch, and to those who had to wait we tender our apology. We can now, however, give immediate despatch. Mr. Newman's opinion: "A very good sample, indeed, of Sussex Ground Oats."—Joseph Hinkley, Poultry Food Specialist, Marsh Street, Middlesbrough.

Special Offer for one week only, cash with order:—Best Quality Yeast Meal, 16s. 3d. cwt.; Maize Gluten Feed, 10s. 6d. cwt.; Oyster Shell, 5s. 9d. cwt.; Grit, 3s. 3d. cwt.; Fine White Midds., 11s. cwt., f.o.r. Carriage paid.—Prices by return post.—Parson and Sons, Ash, Surrey.

## MISCELLANEOUS.

Strong, Vigorous Early-March, 1922, B.I. RED Boucher-Crawley Cockerels, and ditto W. WYANDOTTE (Barron-Cooper) Cockerels. All of fine type and colour, and from high record hens. 20s. each. Also a few 1921 Breeding Hens, with good winter records, 10s. each.—Philip Goodwin, "Outspan," Chesdale Hulme, Cheshire.

F. JOERGENSEN, Specialist and Largest Breeder of Crows. Stock Birds, Pullets and Chicks. — Kenylands, Exmer Green, Reading.

PULLETS, April and May hatched, 12s. 6d., 15s. each. Black, White, Brown Leghorns, White Wyandottes, B.I. Reds, Buff Rocks, March and April Cross-breeds, 8s. 6d., 9s. 6d. DUCKS AND DRAKES, Buff Orpingtons, Runners, Aylesbury, 10s. 6d., 12s. 6d. —Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

## FARMS FOR SALE.

### BETWEEN DEAL AND WALMER.

Capital Poultry Farm of 9½ Acres (mostly pasture), known as Moncrieff's Poultry Farm, Little Mongeham, near Deal. Small Cottage Residence, prolific orchard, good range of Hen Houses, 600 head Pure-bred Poultry (all as a going concern at a Low Reserve, with vacant possession). For Sale by Auction at Royal Fountain Hotel, Canterbury, on Saturday, September 30th, 1922. Auctioneers, John Barker and Co., Ltd., 18, Adam Street, Strand, London, W.C., and Kensington, W.

FOR SALE, Good 4-room Residential Cottage and 1½ Acres Land, Freehold; good well; fruit trees; suitable pigs and poultry; off main bus route, Canterbury-Folkestone. Price, £950 or near offer. Vacant possession.—Apply, Horrocks, Little Breach, near Canterbury.

KENT, 23 miles from London, delightful residence, commodious outbuildings, newly erected poultry houses, Co.'s water, 8 or 11 acres land, 400ft. up; ideal poultry and fruit; good markets; freehold; any reasonable offer.—Owner, Woodlands, Fawkham, Kent.

For Sale, Going Concern, Well-Established POULTRY FARM, House, 17½ acres land, three acres lake; over 800 head laying stock. Dissolving partnership.—Box 157, "Eggs," 94, Farncombe Street, London, S.E.16.

### EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Macconchy, Edenmore, Hook, Hants.

**WHITE ORPINGTON ONLY.**

Write for prices and particulars of our trap-nested stock.—Manager, Westridge Egg Farm, Wotton-under-Edge.

**BUFF ORPINGTON**, 1921 Hens; 8s.; mostly laying. Unrelated Cockerels; March; 13s. All entirely Cook's (Gray) strain; free range. — Miss Turner, Westbrook, Godalming.

### **CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.**

1920 and 1921 Hens for Sale, **WHITE WYANDOTTES**, **RHODE ISLAND REDS**, **BLACK LEGHORNS**, and **WHITE LEGHORNS**; 5s. to 10s. each, according to age and record. All with records from 175 to 240. Individual records supplied. Stock Cockerels of above breeds. Prices on application.

### **WHITE LEGHORNS, BARRON'S PEN 1.**

We purchased from Mr. W. Barron half above pen and half his "Special Pen A.," and now offer you Pullets and Cockerels from same. Prices from 15s. Pedigrees and particulars on application. — The Dales Poultry Farm, Syston, Leicestershire.

**COMMERCIAL POULTRY FARM** for Sale, 15 acres, freehold; two cottages, garden, and orchard; 1,000 1922 Pullets, 1,000 1921 Hens (90 per cent. White Leghorns). Fully equipped plant and appliances. Lincolnshire.—Box 156, "Eggs," 94, Farncombe St., London, S.E.16.

Owing to Dissolution of Partnership. Special Opportunity to obtain Prize Strain Stock. Grand Breeding Pen, Cam's White Wyandotte 1921 Cock and eight 1920 Hens, 4 guineas. Also 35 White Leghorn, trap-nested, 1921 Hens, by son of Lady Eglantine, from Tom Barron's hens; flock average to August 31st, 160; 15s. And 55 Pullets, from same pen, 15s. to 21s., or near offer.—Ellinger, Sherbrooke, New Milton, Hants.

Cooper's 1921 **WHITE WYANDOTTE** Hens; Barron's 1921 **WHITE LEGHORN** Hens, over 200 eggs per bird; all £2 10s. each; 1921 cocks direct, 10s. each. April hatched Pullets, from my registered pens, 15s.; May hatched, 12s. 6d. each; Cockerels, April, 7s. 6d.; May, 6s. 6d. Khaki-Campbell Drakes, Oscar Brown's, 8s. and 10s. each. Approval.—A. Hickton, S.P.B.A., Fireless Brooder Works, Mansfield Woodhouse, Notts.

### **MRS. A. J. PAIN,**

Heath, Park House, Leighton Buzzard, has the following stock for sale:—Fawn and White Runner Drakes, 314 eggs strain, 15s. each; White Leghorn Cockerels, same strain as her "Daily Mail" Test Pen, 15s. each; Rhode Island Red Cockerels, wonderful laying strain (s.c.), 12s. 6d. and 15s. each. Also Pullets, from 12s. 6d. each. Ancona Hens (1921), Mrs. Hoyle's, 8s. each. All carriage paid.

Breeding Pen: 10 **WHITE LEGHORN** Hens; records 190-230; mated 241-egg cockerels; price 4 guineas. 12 May 1922 Pullets from above; 9s. each.—Douglas Ann, Old Thatch, Hellingly.

### **HOUSE FOR SALE.**

### **HAMPSHIRE, FACING AN OLD WORLD COMMON AND 70 MINUTES FROM TOWN.**

A charming genuine Black and White Tudor Cottage Residence, in perfect order, having recently been restored, and containing Dining and Drawing Rooms, with oak-beamed ceilings and walls. Open fireplaces. Three good Bedrooms (beamed), Bathroom (h. and c.), and excellent offices. Modern Sanitation. Company's water. Telephone, Garage, 1-acre Productive Garden, with lawn and paddock of 12 acres; ideal for poultry. Hunting, Shooting, Golf. Price £1,800 Freehold.—Apply, C. Payne, c/o Imperial Bank of Persia, 25, Abchurch Lane, London.

### **BUNGALOW FOR SALE.**

For Sale, delightful Bungalow, in lovely Hampshire; nine acres; poultry houses, etc., for 500 birds; 2min. station. — Box 161, "Eggs," 94, Farncombe Street, London, S.E.16.

### **PUPILS.**

The **ELTY POULTRY FARMING SCHOOL**, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outskirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

Vacancy for Sole Pupil on Modern Commercial Egg Farm, Sussex. Live out. Only those really keen and prepared to work need apply. Satisfactory personal references required.—Box 151, "Eggs," 94, Farncombe Street, London, S.E.16.

### **WELLINGHAM HOUSE POULTRY FARM.**

Miss Malcolm trains lady pupils in all branches of poultry farming; extensive trap-nesting, breeding, commercial egg and table bird branches. Latest Scientific Feeding Experiment as introduced at recent Harper-Adam's Conference. Course begins October.—Ringmer, Sussex.

### **EXCHANGE.**

Exchange **KHAKI - CAMPBELL** Drakes, from trap-nested ducks, with records over 200, for Drakes, similar quality.—Box 159, "Eggs," 94, Farncombe Street, London, S.E.16.

With S.P.B.A. Member only.—**EXCHANGE** (solely to get unrelated birds) twenty to fifty splendid March hatched, Priest and Shaw strain, **WHITE LEGHORN** Cockerels for same number, equally good strain Cockerels, same breed. Clean bill of health given and required. Both sides approval, four days. Carriage forward. No cash given. — Bell, "Mockbeggar," Biddenden, Kent.

### **WANTED. PULLETS.**

Wanted, Pure 1922 Pullets, Red, White, dotted, Anconas, Leghorns.—Lumb, 100, field, Hebden Bridge.

### **MISCELLANEOUS.**

WANTED to Purchase Second-Hand Egg Incubator.—Apply, Estate Agent, Leighton, Iron Bridge, Shropshire.

Wanted, at once, Five Trap-nested **SUSSEX**, 1921 hatched hens. Please state strain and year's egg record; also best price to E. C. Signal, Forest Lodge, Leighton, Hants.

Wanted, Second Hand **EGG BOXES** hold four dozen.—Lawson, Ardross, Ash stone, Surrey.

### **COMMERCIAL POULTRY FARM.**

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Full investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, Two to Four Dozen trap-nested **FRONTS**; cheap.—Moore, Pidham Park Farm, East Meon, Petersfield.

### **SITUATIONS WANTED.**

**PRACTICAL MANAGER**, pedigree poultry farm, age 30; three years' practical scientific experience; also disease investigation. Require cottage; modern conveniences; wife, two children.—Box 155, "Eggs," 94, Farncombe Street, London, S.E.16.

**YOUNG MAN**, M.S.P.B.A., with two years' experience Commercial Egg and Fruit Farming, knowledge of carpentry, accounts, correspondence, keen, hard workers, Regular Post where can acquire further experience; low wages; Midlands preferably.—Box 152, "Eggs," 94, Farncombe Street, London, S.E.16.

**WORKING MANAGER** and **POULTRY MAN** Requires Situation; five years' experience; married, no family; carpentering own tools; highly recommended, Egg Table Birds.—Longman, Brockley Hill, Stanning.

Mrs. **PIERCE-GROVE**, M.N.U.P.S., S.P.B.A. strongly Recommends Young Lady as Assistant on small up-to-date poultry farm, work in exchange for board and lodging. Apply, Minett, Lemon House, Holway, Taunton.

### **SITUATION VACANT.**

For Small Chicken Farm, Strong Bungalow; fair cooking; two in family; state salary.—Box 162, "Eggs," 94, Farncombe Street, London, S.E.16.

### **PARTNERSHIP.**

Experienced Poultry Farmer Requires active **PARTNERSHIP** in good paying business; Southern counties preferred; capital available.—Clifford de Kuse, Stembridge Road, Anerley, S.E.20.

**Not**  
because WE say our  
birds are in every way  
to be commended,  
**But**  
because customers  
and others who have  
seen our farm are so  
well satisfied, should  
you send us your  
enquiries.

**High Praise Indeed.**  
Sandown.  
E. Hales, Esq. Isle of Wight.  
West Mersey Poultry 13th Sept., 1922.  
Farm.  
Dear Mr. Hales,—  
I enjoyed my recent visit to your  
farm exceedingly, and was quite  
pleased to note the excellent quality and  
type of the stock you are breeding.  
You realise the importance I attach  
to type and stamina for egg production,  
and providing you select on the lines  
you have intimated there is no doubt  
you will possess some of the finest  
breeding pens possible.  
A. PRIEST.

Newlands Poultry Farm,  
Wigmore, near Chatham.  
8th Sept., 1922.  
Dear Sir,—  
Received Cockerels yesterday, in  
good condition. They are splendid  
birds, and I am very pleased with them.  
I hope they will be as good as they  
look in the breeding pens.  
W. PYSDEN.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).  
Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).  
Price range from £3 17s. 6d. to £5 5s. 0d.  
per pen, carriage paid.  
Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.  
Price: 12s. 6d. each, or Six for £3 0s. 0d.  
Carriage paid.  
All birds sent on approval, four days.  
Further particulars as to Egg Records,  
etc., with pleasure.

**West Mersea Poultry Farm,**  
**ESSEX,**  
Nr. COLCHESTER G.E.Ry.  
**EXCEPTIONAL OPPORTUNITY.**

**NOW READY.**  
**HARPER ADAMS AGRICULTURAL COLLEGE**  
**1922—1923 LAYING TRIALS.**  
The Syllabus of next year's Laying Trials is now ready, and will be  
forwarded gratis on application.  
Classes are provided for all Utility Breeds, and a Special Section will  
be reserved for any breed showing eight or more entries.  
There will also be an Exhibition Section for those breeders who wish  
to enter Exhibition or Dual Purpose Strains.  
Gold, Silver and Bronze Medals in each Section. Pen and Individual  
Merit Award Certificates.  
Apply—  
**The Principal,**  
**Harper Adams Agricultural College,**  
**Newport, Salop.**

**Sussex Ground Oats**  
**GUARANTEED PURE.**  
**Per 16/- cwt.**

	per cwt.
BARLEY MEAL	13 0
MIDDINGS, ENGLISH	10 6
BRAN	8 0
MIXED POULTRY CORN	13 6
NEW ENGLISH WHEAT	12 6
DARI (WHITE)	13 0
KIBBLED MAIZE (SCREENED)	12 6
WYECOT DRY MASH	15 0

Prepared to the Formula as used by:—  
Capt. Frank Harrison, A.B.S.A., Wyecot  
Poultry Farm, Brook, Ashford, Kent.  
Also all other Kinds of Poultry Foods.  
Free on Rail. Bags included.  
Cash with Order.

**M. HANCOCK & SON (Dept. E.)**  
**Mersham Mills,**  
**ASHFORD, KENT.**

**VALUE IN WHEAT.**  
Good, Sound English Wheat, grown on my  
own farm. This wheat must not be con-  
fused with 'Feed' Wheat; as it is quite  
suitable for milling into bread flour.  
12/- Cwt. £11 10s. 0d. Ton.  
Free on Rail. Bags Free.  
**CAPT. STUART SMITH,**  
KINOULTON, NOTTS.

**AMERICAN OYSTER SHELL**  
**SPECIAL OFFER.**  
AMERICAN CRUSHED OYSTER SHELL.  
MEDIUM GRADE.  
Prices Free on Rail, Liverpool, on  
application.  
**The British American Shelgrit Co.**  
**Bank Chambers,**  
**282, Marsh Lane, BOOTLE, LIVERPOOL**  
Phone: 696 Bootle.  
Telegrams: Poultry, Liverpool.

Advertisers are kindly requested to  
forward their Copy at once for the  
S.P.B.A. ANNUAL REGISTER.



## The Mash that Makes Rapid Growth

FUL-O-PEP Growing Mash, when given the FUL-O-PEP way, will produce more pounds of gain in weight in shorter period than any other known feed. The experience of thousands of poultry raisers has conclusively proved this.

Birds cannot over-eat of FUL-O-PEP Growing Mash; are exempt from digestive troubles; and, whether weak or strong when hatched, they stand an equal chance. FUL-O-PEP is the result of years of scientific research and practical tests by the world's greatest cereal experts.

Write for a free copy of our FUL-O-PEP Year Book (Guide & Calendar), and you will be at once enrolled a member of our Free Advice Bureau. State your difficulties and our Poultry Expert will gladly help you.

### DRY MASH (Laying Grade).

This fine, egg-producing food is always before the birds. yet they cannot over-eat. Contains everything, including green food.

### SCRATCH GRAINS.

The highest quality "scratch feed" on the market—contains corn, wheat, buckwheat, barley, sunflower seed, etc. Just right for the hens' "upkeep."

### CHICK FEED.

A most carefully blended feed, comprising oatmeal, wheat, corn, etc. Given the FUL-O-PEP way, it ensures the life of almost every chick hatched.



# FUL-O-PEP

POULTRY FEEDS

QUAKER OATS Ltd.  
Finsbury Square, London, E.C.2.



### The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN,  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

### 1922 PULLETS.

#### MAJOR HEAPS,

The Villa, Rosehill, Market Drayton, Salop.  
Has February-March Pullets for Sale.  
L. Sussex, W. Wyandottes, 15/- to 25/.  
W. Leghorns, April, bred from his "Daily Express" and S.P.B.A. Winners, 15/- to 30/.  
Cockerels of above Breeds from 20/.  
1921 Hens for Breeding Pens.

## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).  
Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK** - 24/- per cwt.

In 200-lb. casks. Small quantities in lined bags.

Also for fattening:—

**SWEETENED CONDENSED MILK** 8/- per case of 48 tins.

**GENUINE SUSSEX GROUND OATS** 16/- per cwt.

Write for Particulars.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with Order.

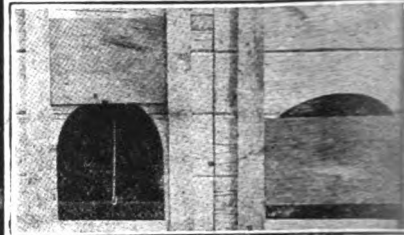
Carriage Forward Heathfield or London.

**GARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

### Darracott's Patent TRAP-NEST (PATENT No. 150547).



Open. Closed.

Used by Laying Tests and Leading Breeds Throughout the World.

The Universal Trap-nest Front, and the efficient Trap-nest in existence; can be put to any nest; made by skilled joiners.

Prices: 3/6 each, 3 for 10/-, 6 for 19/- 12 for 35/-

All prices carriage paid British Isles.

MANDEVILLE POULTRY FARM AYLESBURY

## Government Surplus

### BIG BARRANS.



#### Galvanized Steel Bin

Unused. Sound. Clean

Holds 12 ewe corn: 17 gals. water. in cases of bin makers 28 x 17 x 14 ins.

No. 10. Withdrawn Bin.

1 to 5, 4/3 each: 6 to 12, 4/- each: 12 up, 3/9 each

Prompt Despatch.

H. GORDON (I),  
166, LINDEN ROAD, GLOUCESTER

## We Know

What you are up against. We have been in the Poultry Keeping Line ourselves for nearly twenty years.

HERE'S THE BEST WE CAN DO FOR YOU:—

	per cent.
New English Wheat	12.6
New English Oats	12.6
Clipped and Screened Oats	12.6
Kibbled Plate Maize (Screened)	12.6
Sharps	12.6
Broad Bran	12.6
White Middlings	12.6
Pullet Mixture (from the Best Old Hard Grain)	12.6
Poultry Corn	12.6
Dart	12.6
Maize Meal	12.6
Maize Germ Meal	12.6
Maize Gluten Meal	12.6
Ground Oats	12.6
Newman's Poultry Mash	12.6
Flaked Maize	12.6
Biscuit Meal (Graded)	12.6
Biscuit Meal (Fine)	12.6
Limestone Grit	12.6
Cockle Shell	12.6
Oyster Shell	12.6

Cash with Order. Bags Free. Carriage Forward.

**FRANK SHEARN & Co., Ltd.**  
MIDSOMER NORTON, SOM.

'Phone 51.

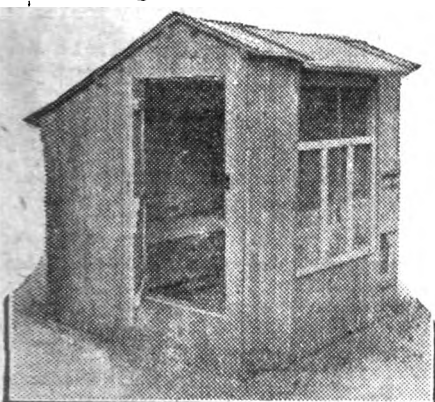
## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
 White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**

### The 'QUENIBOROUGH'



A most Useful Poultry House, well and substantially built. Complete. No Extras.

8ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6  
 8ft. x 8ft. x 5ft., £7/0/0. Floor 21/-.

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
 DEPT. A., QUENIBOROUGH, LEICESTER.

### TWO SPECIAL OFFERS.

**BEST ENGLISH MILLING WHEAT.**  
 (Not Off Corn). *Grown on my own Farms.*

**Direct from Farmer to Consumer.**

**14/6 CWT. £14 TON.**

FREE BAGS. FREE ON RAIL. CHEQUE WITH ORDER.

About 300 Surplus 1922

### PURE BRED COCKERELS.

**WHITE LEGHORNS.  
 RHODE ISLAND REDS.  
 S.C. ANGONAS.**

**6/6**

**75/- Doz.  
 £30 100.**

*Hatched and Reared on my Farm.*

Please Mention "Eggs."

**ALEXANDER BROWN, Hill Farm, Hatfield Heath,  
 HARLOW, ESSEX**

Telegrams: Browns, Hatfield Heath (two words).

Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Boucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type.  
 White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 380 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,**

Member Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

**THE CHALET, BURGESS HILL, SUSSEX.**

## RHODE ISLAND REDS.

**MISS N. B. MADDISON, Dane Hill, Sussex.**

**WINNER of the S.P.B.A. and "Daily Express" Laying Test.**

**FIRST OUT OF 100 PENS.**

**SILVER CUPS, MEDALS, AND OTHER PRIZES GAINED**

**A few excellent BREEDING PENS for sale; also COCKERELS and PULLETS.**

**ALL TRAP-NESTED Pedigree Utility Stock.**

## THE CREAM OF STOCK.

Few March—April, 1922, WHITE LEGHORN PULLETS laying or thereabouts.  
Dams, pure Padman, Stock average 184. Sires, direct Warwick Rogers, dams well over 200.

Not culls, real genuine value, at 25/- EACH. Carriage paid. Approval.

**JACK UNDERWOOD, S.P.B.A.,**

THE RELIABLE POULTRY FARM, Sutton Bonington, LOUGHBOROUGH.

## S. & J. PARSONS, The Poultry Farm, Musbury DEVON.

Breeders of the Highest Class Utility White Wyandottes and White Leghorns and consistent Winners in the various laying competitions. Specialist Breeders of High Pedigree Cockerels.

Prices of Extra Special Cockerels, bred from high record hens, and excelling in type and purity of colour, Three to Five Guineas each.

Other Excellent Birds; bred from individual hens at

**25/- EACH UPWARDS.**

Further Particulars on Application.

**G. R. PINDER, M.S.P.B.A., N.U.P.S.**

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have L2 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. 'Dottes, R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Lindsey Poultry Farm, Carlton, Louth, Lincs.

## ROBERT MILLER, The Poultry House Specialist And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time.

His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

— ROBERT MILLER, —

DENNY, SCOTLAND.

## POULTRY BREEDERS

### DRIED YEAST.

#### Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.81
*Mineral Matter	8.38
	100.00

Nitrogen	7.35
*Including Sand	.05

### OSSIFIED YEAST.

#### Analysis.

	per cent.
Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
†Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
† " Phosphate of Lime	18.00
Sand and Silicious matter	0.31
Total Food Units	150

#### PRICES:—

Dried Yeast, 20/- per cwt.

Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the  
S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from 40/-
1921	" 12/-
1920	" 10/-
1919	" 6/-

Specially Selected Cockerels  
from 6/-

\*Phone:—  
6 Chaddeworth.

Grams:—  
"Sonimor, Leckhampstead."

# EGG FARM

LECKHAMPSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

Mention "EGGS" when replying to Advertisements.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
Near SOUTHWELL, NOTTS.  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
various ages in White Leghorns, White  
Orpingtons, Light Sussex, Anconas (s.c.).

Inspection Invited. Cash or Deposit.

## POULTRY HOUSES

joiner-made from the best materials, by  
the best workmanship. There are many  
real bargains. Write for Catalogue.

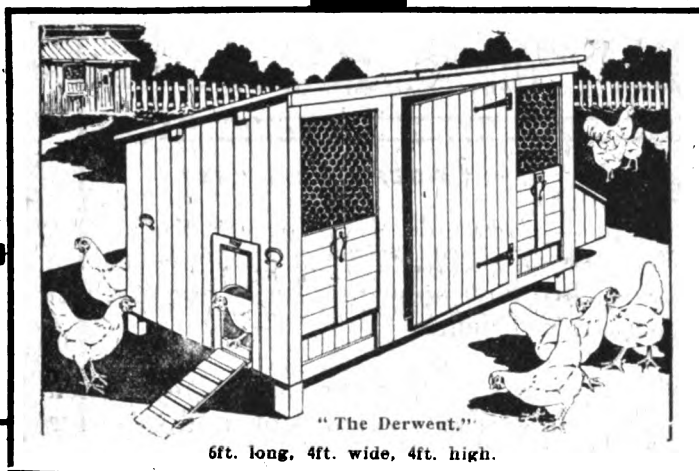
**R. SLIMMAND, St. Mary's Rd., OXFORD**

# HEBDITCH

All Hebditch's Poultry Houses are made of best Swedish deal boards — V - jointed tongued, and grooved and nicely planed. They are all made in sections, and with them are sent screws or bolts for erecting.

## THE "DERWENT"

Raised 1ft. from the ground.



Nest-boxes are also provided, and hen doors. Hen ladders are fitted to the raised Houses.

## REDUCED PRICE £3 7s. 0d.

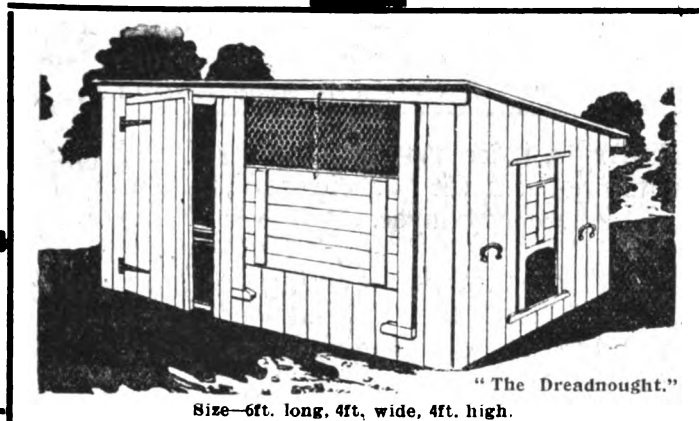
NO extra charge for floor.  
Nest Boxes 12/- extra.

Every House is provided with a strong door, hung on stout hinges. It also has a good press lock and key.

## THE WELL-KNOWN "DREADNOUGHT"

POULTRY HOUSE.

The very best VALUE-FOR-MONEY HOUSE OBTAINABLE.



Any House can, if desired be pickled by immersion in Preserolium at an extra cost of 1/6 in the £.

## REDUCED PRICE £2 6s. 0d.

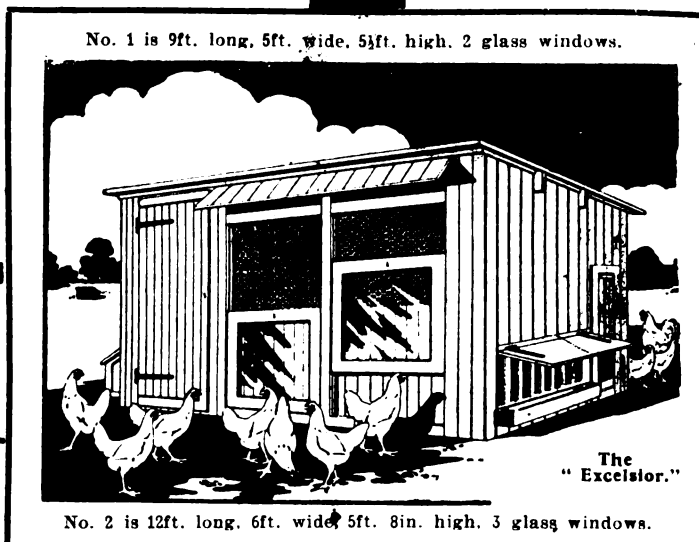
THREE for £6 13s. 6d. SIX for £13 2s. 6d. FLOORS 13/- extra.

Every House is provided with sliding shutter or shutters, suspended on chain, wire - netted windows, and strong 2 x 1 1/2 perches, also handles where required.

## THE POPULAR "EXCELSIOR"

SEMI-INTENSIVE HOUSE.

Provided with a wide dropping-board and perch whole length of House. Very widely used.



All our Poultry Houses are carriage paid to any goods station in England or Wales. Any House can be despatched on receipt of order.

## REDUCED PRICES:

No. 1 - £7 8s. 0d.  
Floor 25/6 extra.  
No. 2 - £9 15s. 6d.  
Floor 39/- extra.

BRITAIN'S  
PREMIER  
POULTRY  
APPLIANCE  
MAKERS.

Poultry  
Appliance  
Makers to  
His Majesty  
the King and  
to His Royal  
Highness the  
Prince of Wales

## HARRY HEBDITCH, Ltd.,

Desk J, MARTOCK, SOMERSET.

SEND FOR THE FREE CATALOGUE and REDUCED PRICE LIST.



# The Vital Point

about a poultry mash is not what you think of it, but what your hens do with it.



"Stanbridge Grange,  
Staplefield, Sussex,  
16th August, 1922.

The Algin Company, Ltd.

Dear Sirs,  
I started using Salubrene nearly a year ago. I thought I would give it a trial during the moulting season, as the excessive dry weather had left even our very large grass runs almost bare, and I was afraid that the lack of mineral salts, caused thereby, might seriously affect the health of the breeding stock. I am glad to say that the results were even better than I hoped for.

During the hatching season I decided to try Salubrene with some of the young stock. I used, for 3 week-old birds, a tablespoonful in their dry mash, and was so pleased with the results that I used it during the remainder of the hatching season with all the birds. I have recommended Salubrene to a number of my customers and also your excellent Alfalfa Meal.

(Signed)  
FLORENCE KENT."

NOTE.—Mrs. Kent is one of the largest and most successful poultry farmers in the South of England.

They can do nothing with it at all, no matter how rich it may be in protein, if the mineral salts are deficient.

The mineral salts are the master-key, which alone unlocks the Protein door, and sets free all its astonishing activities.

Mann, in his standard book "The Chemistry of the Proteids," says bluntly—"Protein in the absence of the mineral salts is *dead*."

Poultry science to-day confesses that the salts are often very deficient for the needs of the modern egg layer.

People are therefore trying to make good this deficiency by all kinds of guesswork mixtures bought at the chemists.

America tried all these out long ago, without success.

The only practical and satisfactory way of supplying the salts is in some form of Nature's own arranging. Then only can you be sure that the hen will get what she needs, in a form suitable for her digestive processes.

The only natural preparation of the mineral salts is

# Salubrene

Corn Merchants keep Salubrene in packets at 1/3 each.

We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

A month's supply for 20 birds post free 1/6

Full instructions for feeding Salubrene to chickens, layers and breeding pens free.

Successful Poultry mashes for all purposes free for card.

Write to—

THE

ALGIN COMPANY, Ltd.,

(Desk E),

12, Norfolk St., Strand,  
London, W.C.2.

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank."

# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

### Corrugated



### Roof Sheets.

Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed  
PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

### The British Fibrocement Works, Ltd.

Manufactured only at **ERITH, KENT,** Head Office and Works.  
Telephone ERITH 89.

London Office: Central House, Kingsway,  
Telephone GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.  
Telephone: CENTRAL 7292.

Also at Glasgow, Swansea, Dublin and Belfast.

### DRY MASH, For Egg Production.

16/6 cwt. Carr. Paid

### DRY MASH

Frame

Builder.

13/6 cwt.

Carr. Paid.

## FAM

'Phone 130

### 'CLOFALFA' MEAL.

From Genuine  
Alfalfa  
and Clover.

15/- 100 lbs.

Carr. Paid.

Fish Meal.

Meat Meal.

Biscuit Meal.

Palm Kernel

Meal.

Rice Meal.

Maize Meal.

Maize Germ.

Sussex

Ground Oats.

Flaked Maize

K'bled Maize

Soya Bean

Meal.

English do.

P'try Wheat.

Poultry Oats.

Dried Yeast.

Dried Butter-

Milk.

Dried Full

Milk.

Grit & Shell.

## PHILIP CHURCH & SONS,

SWAN WHARF,

### BISHOP'S STORTFORD.

DISCOUNT TO MEMBERS S.P.B.A.

## CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt	s. d.
CHAMPION MIXTURE	20	0
A.1 MIXTURE (with or without Maize)	18	0
X.B. MIXTURE	17	0
X. MIXTURE	16	0
CLIPPED OATS	18	0
OLD WHEAT	18	0
WHEAT	16	0
CHAMPION KIBBLED MAIZE	18	0
CHAMPION LAYING MEAL	21	0
CHAMPION DRY MASH	21	0

Carriage Paid, England and Wales,  
Scotland 2/- per cwt. extra.

NO DUST. NO WASTE. Mixed and Well  
Cleaned by Special Machinery.

For other Specialities see Price Lists.

Samples and Price Lists free on  
application to

### WILLIAM BRINKLER & SONS, Ltd.

Pigeon and Poultry Food Dept.,  
(5) CLAPHAM GRANARIES, LONDON, S.W.4  
Telephone: BATTERSEA 211.

## BEST ENGLISH RINGS

These are NOT the Cheap Imported  
but English Made.



LARGE  
STOCKS  
HELD.



SPIRALS IN TEN COLOURS.

Red, Green, Light Blue, Violet, Dark Blue,  
Yellow, Pink, Brown, Black, White.  
FLAT BANDS. in 10 plain colours, 5 strips.  
Aluminium, any Number and Year.

ALL ONE PRICE.

	500	400	300	150	100	50	25
Day-Olds	10/-	8/-	6/-	3/-	2/-	1/3	1/9
2 months	13/9	11/-	8/3	4/3	3/-	2/-	1/3
Half-Grown	15/-	12/-	9/6	5/-	3/6	2/-	1/4
Light Breeds	25/-	20/-	15/6	8/3	5/9	3/-	1/9
Heavies	26/-	21/-	16/6	8/9	6/3	3/3	2/-

All Subject to 5 per cent. Discount.  
An Extra 5 per cent. to M.S.P.B.A.  
Post Free.



FULL LIST  
POST  
FREE.



These are not the Imported, which are  
much too flimsy.

### VERMICIDE.

A most powerful Killer of Vermin and all  
parasite life, a good disinfectant for  
Incubators, Brooders, Houses, etc., etc.

ONCE USED, ALWAYS USED.

1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6;  
Gallon, 8/6.

Carriage Paid.

Less 5 per cent., S.P.B.A.

### PENETRAS.

FINEST PRESERVATIVE ON THE  
MARKET.

Not the Ordinary so-called Creosote.  
1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal.;  
40 gals. (or about), cask £2 10s. 0d.  
Tins free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

### FENCING STAKES.

Per 12. Pointed and Penetrated.  
4ft., 6/6; 5ft., 7/3; 5ft., 8/-; 5ft., 8/6;  
6ft., 9/3; 7ft., 10/-; 7ft., 10/6.  
Less 5 per cent., and an extra 5 per cent. to  
S.P.B.A. All Carriage Forward.

### GALV. WIRE NETTING.

24in. 36in. 48in. 60in. 72in.  
1in. 17/2 24/5 32/7 41/7 48/9  
2in. 10/6 14/3 19/- 23/9 28/6  
3in. 7/11 10/11 14/6 18/2 21/9  
Per Roll, 50 yards. Carriage paid orders £7.  
Less 2 1/2 per cent., and an extra 2 1/2 per cent.  
S.P.B.A.

### FINE BISCUIT MEAL.

As used on my own farm. Splendid Egg  
producer and doubles its bulk, 24/- cwt.  
Carriage paid.

Reduction on ton lots.

FLINT GRIT, 5/6 cwt., carriage ford.  
OYSTER SHELL, 10/- cwt., carriage ford.  
COCKLE SHELL, 7/9 cwt., carriage ford.  
Less 5 per cent. and an extra 5 per cent.  
S.P.B.A.

### TRAP-NEST FRONTS.

One of the Simplest and Noiseless Traps on  
the market.  
4/6 each, post free. Six or more, 4/- each.  
Reduction on large quantities.

### C. A. SYDENHAM HANNAFORD, M.S.P.B.A.,

The Leading Maker of Good Appliances in  
this country.

Hamworthy Junction, Dorset.

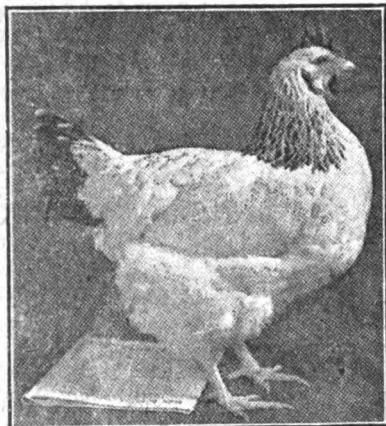
**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.



**H. S. HODGES,**  
**HEATHFIELD, SUSSEX**

(Established 1905).

*Sussex Fowl Specialist.*

Winner at Leading Shows.

Speckled, Red, Light, Brown Sussex.  
 Early Cockerels and Pullets and 1921  
 Stock for Breeding Pens.

Cross-bred Sussex Eggs now ready for  
 Early Spring Chicken Trade.

These will make 3/- lb. next Spring.  
 Don't let your Incubators stand idle.

**45/- per 100, from Two-Year Hens.**

**ADMIRAL CAYLEY,**  
**Lanarth, St. Kew Highway. Cornwall,**

Offers the following:—

**WHITE LEGHORNS.**

6 Cockerels from his No. 1 Pen. 12 Cockerels from his No. 2 Pen.  
 3 Cockerels from his No. 3 Pen.

**EXCHEQUER LEGHORNS.**

8 Cockerels.

Prices from 12s. to 21 5s. 0d.

Pedigrees Given.

Also some High-Class Breeding Hens, 1921 WHITE LEGHORNS.

Pedigrees 180 to 200.

Prices: 10s. to 12s. 0d.

Early Application is advised.

**NOTE THESE  
 PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in relation  
 to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	41/6
Clipped Oats	13/6

**MEALS**

Maize Meal (fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dair, Bar-  
 ley, Oat Feed, Barley Meal, Bio-  
 cut Meal (Poultry), Service Meal  
 (fine), Cockle Shell, Flint Grit,  
 Mixed Grit, Pure Oyster Shell, in  
 K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMI-  
 CAL QUALITY FOODS** to-day.  
 Order through **Secretary.**  
**S.P.B.A.,** and get your discount.

*The* **Service Food Co.**  
 VICTORIA MILLS  
 GRIMSBY

**Day by Day**  
**in every way**

**your POULTRY**

pay you better and do themselves better

IF YOU USE THE

**VENN-CARR**

**Automatic Dry Mash Hopper**  
**Automatic Scattering Corn Feeder**  
**Drinking Fountains**  
**Poultry Houses, etc.**

They make poultry keeping pleasanter and  
 without tying you to the home.

For the professional, as others, they save  
 time, therefore save you money, enabling  
 you to give more time to that very neces-  
 sary item in successful Poultry Farming.

**DETAIL.**—They cut your Feeding Cost 25%.

Write for Illustrated Catalogue, post free.

**EVERYTHING SOLD WITH A GUARANTEE.**

**VENN CARR, DEPT. 2.**

**Maidstone Poultry Farm Appliance Works,**  
**Medway Street, MAIDSTONE.**

# POULTRY KEEPERS

Follow the Advice of a well-known Expert who knows How to Make Poultry-keeping Pay.

Read the following Extracts from a letter which appeared in "Eggs," on April 26th, 1922:

"Golden Cross Poultry Farm, Hough Green, Widnes.  
"Liver Oil. We at once obtained the latter, and the RESULT HAS BEEN VERY GRATIFYING. We have compared our results with the corresponding yield of last year, and there is a 10 PER CENT. INCREASE IN OUR RETURNS. We have also used impregnated Fish Meal in our chicken mash, and we are satisfied that it is beneficial."  
(Signed) H. BROOKSBANK.

Since the above letter appeared Messrs. Bicol Ltd., has received the following from Mr. Brooksbank:—

The impregnated Fish Meal which I used was BYCOLLA. Such undeniable evidence is clear proof that Bycolla is one of the finest health-sustaining and most nutritious foods now on the market, and every Poultry Keeper should order a supply from his dealer, and watch results.

# BYCOLLA

CONCENTRATED (WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL,

BYCOLLA is extremely economical, one ounce per day being sufficient for 6 hens. This works out to a cost of 0.04 of a ld. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spice should be given.

BYCOLLA contains the purest Veterinary Cod Liver Oil obtainable, and no finer tonic can be given to keep stock in good condition. It is guaranteed to have no effect whatever on the taste of the flesh or eggs if mixed with the ordinary daily feed in the proportion of 10 per cent. BYCOLLA to each mash.

BYCOLLA is wholesome and appetising and birds fed on it are firm of flesh, glossy in feather, full and ruddy in comb, vigorous and productive, giving abundance of eggs all the year round. It is also unequalled for rearing strong healthy chicks, which are impervious to disease, come to early maturity and are kept in better condition than by any other known method of feeding.

BYCOLLA Analysis gives a very high proportion of Food Units, viz.:—154, as follows:—Albuminoids, 60 per cent. Oil, 8 per cent. minimum. Salt, 3 per cent. maximum.

**Price 28/- per cwt.** Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Bags Free. Carriage Paid in England and Wales. Terms: Cash with Order.

Bycolla is also sold by dealers at 2s. 3d. per 7lb. bag. If your dealer does not stock, kindly send name and address. Cost of postage refunded.

SEND FOR SAMPLES TO

**BICOL LTD., HOPE STREET, GRIMSBY.**

(Factory: PYEWIPE, GRIMSBY.)

## SPECIAL LIME STONE GRIT, NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits. (Reg.)

3s. 6d. per cwt., 68s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbreck," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It."

## START WITH GOOD STOCK!!

Our Stock of Highest Class Utility Poultry can be absolutely relied upon, as they possess Colour, Type, Size and Stamina, and are bred to lay a good-sized egg in paying quantities.

We have upwards of 3,000 birds to select from, all bred and reared on our own farm, and they are in perfect condition.

### BREEDS:

Light Sussex. Rhode Island Reds.  
White Wyandottes. Buff Orpingtons.  
White Leghorns. Anconas.

1922 PULLETS . From 17/6 Each.  
1922 COCKERELS " 10/6 "  
1921 HENS " 7/6 "

All Carriage Paid, and Guaranteed to give entire satisfaction.

Managing Partner, **WILFRED HILL,**  
Ashgrove Poultry Farm,  
ELLAND, YORKS.

TRAP-NESTING CARDS, 64 x 124 inches.  
1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.  
Trap-Nesting Record Books, 6/-.  
Hatching Record Books, 7/6 and 11/-.  
Stud Books for Poultry, 6/-.  
Incubator Records, 1/3 doz.; 7/- per 100.  
Backyarder's Complete Record, 2d.  
Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKS, LEICESTER.

## MIDDLESEX OFFICIAL OPEN LAYING TEST.

Commencing Nov. 1st, 1922.

## VALUABLE PRIZES.

For full particulars and Entry Forms apply

**HEARNE HOUSE POULTRY FARM,**  
HAYES, MIDDLESEX

## Pedigree Utility Stock Cockerels and Pullets.

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
REDS.

Pedigree Stock Cockerels a Speciality.  
Bred from individually recorded L2  
Hens, with high winter records. All  
Stock is sent Carriage paid and on  
full approval.  
Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.),  
THE WORLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.



# "UTILITY" TRADE MARK POULTRY FOODS.

REAL BARGAINS.

Special Offers to S.P.B.A.

	per cwt. s. d.
3000 bags Manitoba Feed-Wheat	11 0
500 bags American Dair Seed	10 0
500 bags Opped Heavy Oats	11 6
500 bags Best Mixed Fowl Corn	12 0
500 bags Maize Gluten Meal	12 0
500 bags Best Quality Fish Meal	14 0
500 bags Fine Biscuit Meal	14 0
500 bags Best Sussex Ground Oats	15 0
1000 bags Light Wheat	9 0
150 bags Coarse or Fine Charcoal	14 0
450 bags Best Quality White Wheat Meal	13 0

F.O.B. Liverpool. Bags in. Cash Terms.

ARGYLE MILLS, Argyle St., LIVERPOOL.

Phone: 2585 Royal. Telegrams, "Emphatic."  
Established 1868.


**Eggs Insured**  
in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

## DR. J. H. BALDWIN

SPRINGFIELD P.F. WIMBORNE, DORSET

ONLY THE VERY FINEST STOCK

White Leghorns,  
White Wyandottes,  
R. I. Reds (hatched)

Bred from PENS of TESTED PARENTS  
and PENS headed COCKERELS bred  
PROVED L2 Birds.

If you get them from "Homeatlast"  
it means SATISFACTION.

**ANCONAS, LIGHT SUSSEX,**  
and The Adjustable Trap-Nest Front  
(Free, Pat.) Sample, 3/6.

**VICTOR P. WILLIAMS,**  
Homeatlast Poultry Farm, BEXHILL, SUSSEX.

Oyster Shell, English or American Graded - - - 7/-  
Keat Blue Sharp Flint - - - 3/6

Free on Rail; Reduction 1 ton and upwards  
Send 2 stamps for samples.

**F. G. BRANTON, Grit Manufacturer**  
GREENHITHE, KENT.

# Cerema MARMITE for Poultry

Sent direct to Poultry Farmers.  
In view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

## Better Birds —more Eggs

THIS preparation contains the  
important B. Vitamin so  
essential for the health of  
Birds. It may be given either in  
the form of a drink by dissolving  
in water, or the solution may  
be incorporated in the mash.  
Birds will take it eagerly. It  
increases their resistance to  
disease and assists digestion.



# PRIEST & SHAW'S

## SPECIALITY—Scientific Breeding for Egg-Production, Pedigree Wyandotte and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

### Can Any Firm wish for Better Testimony?

Letter No. 71.

149, Warwick Road,  
CARLISLE.  
August 21st, 1922.

Dear Sirs,—

I have received the thirty pullets, and all except one arrived in splendid condition, and I am greatly delighted with them.

When are you sending the record cards and holders, and pedigree Cockerels? Again expressing my pleasure at the condition of the pullets.

I remain,

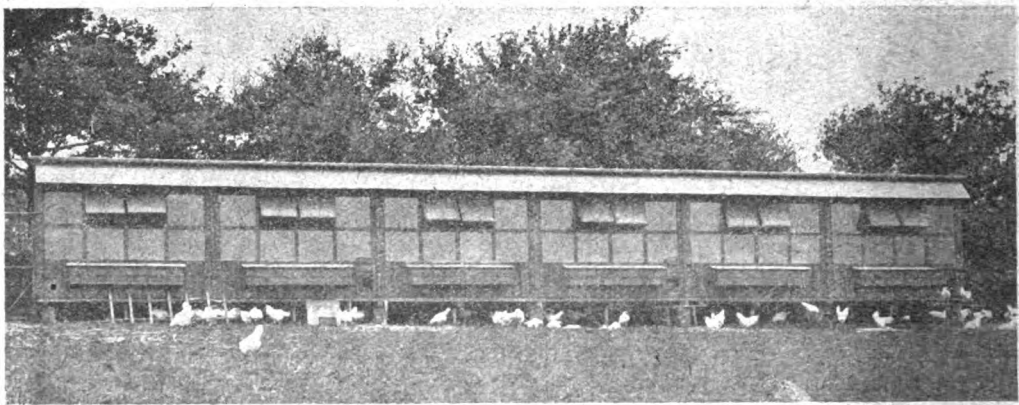
Yours faithfully,

(Mrs.) J. R. NICHOLSON.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### The "PONDTAIL" Semi-Intensive House.



Illustrated Catalogue Free on Application.

3in. T and G. matching on 2in. by 3in. and 2in. by 4in. traming. Made in 10ft. sections.

No.	Length.	Width.	Front.	Back.	PRICE.	Floor Extra.	£s.
No. 1	10ft.	12ft.	8ft.	5½ft.	£19	£6.	
No. 2	20ft.	12ft.	8ft.	5½ft.	£32	£10.	
No. 3	30ft.	12ft.	8ft.	5½ft.	£48	£14.	
No. 4	40ft.	12ft.	8ft.	5½ft.	£63	£19.	

Carriage Paid. 7½ per cent. discount to Members of S.P.B.A.

**PONDTAIL POULTRY FARM,** (Prop.: J. V. MILNER-LENNARD, M.S.P.A.)  
**FLEET, HANTS.**

## PEDIGREE LAYING PULLETS.

On One Month's Approval.

**DE L. REDS**  
 (Cher's) March  
 April hatched.  
 n's records 240.  
 Sire's Dam 21.

**ITE WYAN-**  
**TES** (Barron's).  
 57. Sire son of  
 Isen Beattie's  
 Snowball.



**ITE LEGHORNS.** Dams 250 upwards.  
 Sire's dam, Gilpin's 293-egg hen.  
 1/-, 21/- and 25/- each. Satisfaction  
 Guaranteed.

**C. GRAY POULTRY FARM, Ltd.,**  
 Sidcup, Kent.

## red-to-Lay Strains

**N. WYANDOTTES,**  
 (BARRON.)

**W. LEGHORNS,**  
 (PADMAN.)

## Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
 Autumn Delivery.

1920 and 1921 Hens.  
 Trap-Nested and Passed the S.P.B.A.  
 Winter Egg Test.

Digree, Records and Particulars, post  
 free on request.

**Major HADEN, S.P.B.A.**  
**ETHERBY HALL, SEDGLEY,**  
**STAFFS.**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
 about 23lb. 3s. 6d.; 2 5s. 6d.;  
 3 8s. 6d.; 5 13s. 2 cwt. Bales,  
 canvas covered, 15s. All car-  
 riage paid. Cash with order.

**THE PEAT MOSS LITTER  
 SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
 Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.  
 COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE THE QUALITY

4in x 4in. T.G.B.	7s. 6d.	3in x 5in. Sawn Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	1in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	3in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
4in. x 5in. T.G.B.	11s. 6d.	1in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
4in x 4in. T.G.B.	9s. 6d.	2in. x 1in. Battens	5s. 6d.	3in. x 6in. Battens	40s. 6d.
4in x 5in. T.G. do.	13s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 4in. Weatherbds.	
4in. x 5in. Sawn Bds.	7s. 6d.				5s. 6d.
					8s. 6d.

per 100 feet. OUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
 terms for large quantities. When ordering please state nearest Railway Good Station  
 WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mills, SEAFORTH.  
 LIVERPOOL. Tel. 624 Waterloo.

## CANADIAN s.c. RHODE ISLAND REDS

1922 March and April PULLETS and  
 COCKERELS. Correct Type and Shape.  
 Dark Even Colour, Well Grown and  
 Healthy.

PULLETS, 15/- COCKERELS, 20/-  
 Carriage Paid on four. Approval willingly

**A. E. GIBLETT, M.S.P.B.A.,**  
 THE CEDARS, DOWNEND ROAD,  
 FISHPONDS, BRISTOL.

## W. MASON, M.S.P.B.A., P.C.,

Littledale Poultry Farm, Halam,  
 Near SOUTHWELL, NOTTS.

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks  
 various ages in White Leghorns, White  
 Orpingtons, Light Sussex, Anconas (s.c.).

Inspection Invited. Cash or Deposit.

## READ THIS!

Glengariff, Effingham Road, Surbiton, September 16th, 1922.

"Dear Sirs.—I am very pleased with the result of 6 months' use of MILKO Laying Meal. The  
 birds never tire of their food since I started using it. They have laid well all through the summer, and  
 I am now getting 9 to 12 eggs a day from 15 hens, last year at this time from the same number I had 5  
 eggs a week. I brought all my chickens up on your chicken, and growing meals, and have had most  
 satisfactory results, fine birds, no sickness, no losses.—Yours, etc., Miss MABEL PATTISON."

The above is only one taken at random from dozens received every week.

YOU, too, will get better results in every possible way if you start to-day  
 to use MILKO foods... the original milk foods for poultry. MILKO  
 Laying Meal is now used on many of the largest poultry farms in the  
 country. Tons sold every week, and repeat orders reach us every day.  
 Remember, that a food based on milk, is safer to use than foods based on  
 any other animal matter. There are many different kinds of foods and  
 condiments that will produce eggs, but you must use a food that will give  
 you a heavy egg yield, and at the same time keep your birds in perfect  
 health, so that they will be able to produce fine fertile eggs and strong  
 healthy chicks in the Spring. For this purpose there is not one other food  
 that can beat MILKO Laying Meal. Prove our claims for this meal by  
 getting a supply right now!

Your young pullets, if they are not six months old yet, need MILKO  
 GROWING MASH now. It is the best food for building fine sturdy bodies, and  
 provides them with the necessary stamina for heavy egg-production during  
 the winter months. Give your laying birds MILKO LAYING MEAL, the  
 greatest egg-producer ever offered to British Poultry Keepers. Test these  
 two foods for yourself. You will never regret doing so, and we know that  
 you will continue to buy MILKO foods in future. Note low prices—MILKO  
 GROWING MASH, 25/6 per cwt.; 4cwt., £4 18s. MILKO LAYING MEAL,  
 23/6 per cwt.; 4 cwt., £4 8s. All Carriage Paid.

**SPECIAL TERMS TO LARGE BUYERS. PLEASE WRITE US.**

GET A SUPPLY TO-DAY.

## MILKO FOOD CO.,

(Dept. 2),

**Fleet House, Fleet Street,**  
**LONDON, E.C. 4.**





## CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

### "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry. The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

### "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

QUOTATIONS  
AND  
PARTICULARS  
FREE.

*Satisfaction  
Guaranteed.*

## EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

*HIS  
WHITE WYANDOTTES  
and WHITE LEGHORNS  
are unbeatable as layers of  
large eggs, and plenty of them.*

*Send 11d. stamp for Catalogue and list of  
Prices. Fully Illustrated, it is worth having.*

### WHO SERVES BEST.

*Advertisers are kindly requested to  
forward their Copy at once for the  
S.P.B.A. ANNUAL REGISTER*

### "An Egg in Every Ounce."

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England

**ROSSLYN & Co**  
30, KENNINGTON PARK ROAD  
LONDON, S.E.11.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from	40/-
1921	"	12/-
1920	"	10/-
1919	"	6/-

Specially Selected Cockerels  
from 6/-

\*Phone:— 6 Chaddlesworth.      Grays:— "Sonimor, Leckhamstead."

# EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

OUR POPULAR  
— PRICE LIST —  
AND OTHER PARTICULARS  
COST NOTHING

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, September 27th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 8d. per annum; 6s. 4d. for six months 3s. 2d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Beeches, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. **Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

However much those who are actively engaged in the industry may be imbued with the idea that it is in a bad way, the fact remains that it has lost little of its attraction for many people as a means of earning a livelihood. In two days we have had five letters from readers, who contemplate commencing commercial egg farming. As their arrangements have already been made, nothing will dissuade them from embarking on their venture. We have no desire to discourage them, nor do we wish to imply that they will necessarily fail.

For the individual, with the necessary capital, experience, energy, and business acumen, we believe that there is as good a chance of success in this as in any other business at the present time.

Those, however, who lack any of these essentials will have a hard row to plough, and, with all respect, we may say that the great majority of those who are ambitious to become poultry farmers, are lacking in one or other of them. One cannot afford to enter the industry prepared to buy experience, as was possible, perhaps three or four years ago, the margin of profit from the commercial hen is not now sufficient, and to any one contemplating commercial egg farming at the present time we advise to start well equipped with these essentials for success.

It would be helpful if statistics were available which would enable us to arrive at a correct estimate of the margin of profit from the commercial hen. Unfortunately they are not, but speaking strictly of the production of the commercial egg, we should estimate the nett profit at 6s. 6d. per bird.

As we do not desire to mislead our readers we by no means assert that it is so, and should very much like to have the opinions of others on the subject, with the figures on which their estimates are based.

That a most absurd idea as to the possible profits to be derived prevails amongst the uninitiated, is evident from many of the letters which pass through our hands, and many of them painfully under-estimate the amount of capital necessary to pull them through.

In answer to an enquiry on the point we would not advise any man to embark on commercial egg farming for a livelihood with a smaller capital than £1,000, neither would we recommend anyone to start with a smaller area than ten acres of ground. That is if he desires a decent livelihood as apart from mere existence. Calculating 300 birds to the acre it will be seen that 10 acres will be required if the estimated profit is 6s. 6d. per bird.

It would be well if on all farms the novice during his training was, in addition to the usual routine work, initiated into the art of buying and marketing, for in these respects a number of commercial egg farmers are hopelessly out of it, and many a failure can be traced to this cause.

Now, with reference to a start. Here is a case in point. The writer proposes to buy three hundred April hatched pullets at 17s. 6d. each, and a 100 yearling hens at 9s. 6d. each. His estimate is as follows: That in two seasons these pullets will average 22 dozen eggs each at an estimated value of 2s. 3d. per dozen: £2 9s. 6d. Will be sold at the end of their second year at 2s. 6d. each, for food he has allowed 18s. per bird for the two years; for labour, rent, rates, and taxes, depreciation and interest on capital 3s. 6d. per bird per year: £2 2s. 6d., or a balance in his favour of 3s. 9d. per bird at the end of the two years; in addition, he will have stock, and stock is money.

That is the gist of his letter, and we leave it to our readers to find the weak spot. Apart from the mistake of investing £250 to such poor advantage we think that time will prove to the writer that his estimate will need modification.

On the other hand, his 100 hens at 9s. 6d. are not likely to be of such quality as to breed stock which will give good average production, and the price raises the suspicion that they are but the culls from a commercial egg farm.

One feels that a better investment would have been one hundred good breeding hens, and the money which is to be spent on the pullets could be better employed.

One point which the prospective poultry farmer is always inclined to ignore is the cost of replacements. It certainly is a question which would repay investigation.

Generally it is advised to replace two-thirds of the yearlings with pullets. That, we believe, to be almost universal practice, but whether it would be fully justified or not we cannot say without further knowledge.

Assuming the cost of rearing a pullet to the productive stage to be 10s., is the average value of the eggs laid by the pullet sufficient to justify the replacement of two-thirds of the stock each year.

One recognises, of course, that a certain proportion of the stock must be replaced each year, but whether it pays to do it to the extent of two-thirds is a point which has yet to be decided, and which should be investigated. Perhaps if a more careful system of culling were practised it might result in the greater number of birds which would prove profitable in their second season.

#### NATIONAL LAYING TEST.

Mr. J. N. Leigh informs us that a record number of entries have been received for the National Laying Test. Six hundred and twenty-six entries have been made, as compared with the previous record of 494 made last year. This is a huge advance. H.R.H. the Prince of Wales has entered a pen of White Leghorns. The breeds represented include:—

White Leghorns, 192 pens; White Wyandottes, 122; Rhode Island Reds, 91; Sussex, 35; Black Leghorns, 42; Anconas, 12; Australorps, 8; Buff Rocks, 7; Team, 7; White Bresse, 4; Buff Orpingtons, White Orpingtons, Barnevelders, Exchequer Leghorns and Minorcas, 3 each; Columbian Wyandottes and Golden Barred Rocks, 1 each; Ducks, 84 pens.

A large number of pens will be thrown out in the ballot, the result of which will be notified in due course.

#### A PURE COINCIDENCE.

There is the story of the nervous young curate, who having announced at the morning service that the blankets would not be distributed to members of the blanket club until the Sunday after Christmas, proceeded to give out the hymn, "Christians, seek not yet repose." That was a pure coincidence. While waiting for the post this morning we remarked that it was surprising that no offer for the 303 egg White Leghorn pullet offered for sale by Dr. Menzies, the proceeds to be devoted to the N.P.I. Fund, had been received from a certain individual. By pure coincidence the first letter opened was from the individual in question, but the offer he made was not good enough. Think of it. Here we have a pullet hatched April, 1921, which has laid

303 eggs weighing 2½ozs. each in 12 months.

She is moulting imperceptibly, and is still laying four eggs a week. On her arrival here where she was sent by Dr. Menzies in order that we should see what he is offering our readers, we found an egg in the crate, and she laid again next day. The eggs weigh a good 2½ozs., and are of good texture and shape.

As to the handling test, she weighs just 4lbs. Capacity four fingers; breast, medium length; great width across the back, tight plumage, legs rather short and stout. Good head, with bold bright eye. She handles well. You are conscious of that directly you pick her up, but she does not handle as an "exceptional" bird. But then we have not found that "exceptional" handlers give better records than birds which handle well. This is a bird of medium size with a sound constitution.

Now, Ladies and Gentlemen. What is she worth to you as an investment? 303 eggs weighing 2½ozs.

each. We have seen records of 300 before, but the majority of the eggs are under-sized. Think of the value of the cockerels bred from her, not only for your own stock purposes, but what a demand there will be for them, and what a price they will fetch. Again we ask, WHAT IS SHE WORTH TO YOU AS AN INVESTMENT?

#### OTHER OFFERS.

A pen of 10 hens (White Leghorns) and a pedigree cockerel from Mr. Lester Spurgeon. What offers?

A pen of White Wyandottes, consisting of five hens and a cock, by Mrs. Hunter.

Two Sittings of Light Sussex eggs, by Misses Woolnough and McTurk, delivery after January 15th. The pen average was 56 eggs per bird from November 1st to February 1st, and they will be mated to a Lister cockerel whose dam laid 64 eggs, averaging 2½ozs. during the winter months.

Please make your bids.

The total sum received from all sources for the National Poultry Institute to date is £3,790. The S.P.B.A. have so far raised £730 11s. 10d. of that sum. £2,800 are still required for the Institute, and we need £270 to be in a position to claim the £100 generously offered by Mr. Brook if we raise a £1,000.

#### Indian Runner and Khaki-Campbell Ducks.

By A. HAROLD PAINE—Thirty-Second Article  
continued.

By no means the least interesting part of duck-keeping as a hobby are the letters one receives from time to time giving results achieved by others. One to hand from Taunton recently gives such an extraordinary record of what has been done in a period of some three years that I quote part of it herewith.

After giving me some particulars of this year's hatches the writer goes on to say: "I wonder if some time during the winter, should you have half-an-hour to spare, you would kindly cast your eye over the attached sheet, which shows rather peculiar results of my three years' duck keeping. You must understand that in every case I only hatched ducks for table purposes, and those remaining each year were what has escaped the knife when they gave their first egg. There was no attempt at selection beyond taking out those from time to time which looked most likely to do well!! The original eggs from farms were, of course, said to be Aylesburys, but were of all colours and size and produced medium-sized and large birds. The drake and three of the five ducks retained for laying were large and rather favoured the wild mallard appearance. The question is, where do the present lot of "D" ducks get their laying propensities from? A second puzzling thing is that only five times in the year of laying have I picked up eight eggs in one day and in three cases it is most probably that these have been overlooked the previous days. If this means that one of the eight ducks has never given an egg the results are still more remarkable as regards the other seven. Since they started laying there have only been

six days on which they have given no eggs, and those were early in September last year, and as the value of eggs given is over £17, the beggars do not owe me much."

Here is the tabled results which my correspondent obtained:—

#### First Year, 1919-1920.

Eggs. Set 30, obtained from two different farms.

Hatched from 1st to 10th May, 1919: 22 ducklings.

Commenced laying on 2nd January, 1920. Number remaining, one drake and five ducks.

Ceased laying 14th July, 1920.

Average number of eggs per bird: 137.

#### Second Year, 1920-1921.

Eggs. Set 18 from "A" Ducks above (hatched 16 ducklings early March). Eight received from the Rev. Seymour Shaw (hatched three ducklings, 4th April, 1920).

The laying pen contained:

5 "A" Ducks.

2 "B" do.

1 "C" do. (W. and F. Indian Runner).

2 "C" Drakes (1 W. and F. and 1 W. Indian Runner).

"B" and "C" ducks commenced laying on 9th July, and "A" ducks after the moult on 25th August. All ceased laying from 23rd September to 30th December.

Last egg received on 25th July, 1921.

Average number of eggs per bird: 126.

#### Third Year, 1921-1922.

Eggs. Set 23 from second year's pen, selecting the smaller white ones.

Hatched 19 ducklings on 25th April.

The laying pen consisted of:

1 "C" ducks:

7 "D" ducks.

1 W. and F. Indian Runner Drake obtained from a farmer in exchange for White Runner "C" Drake of last season.

Commenced laying 29th August, 1921, and are still giving four or five eggs daily. Up to to-day, the 28th August, they have given 1,918 which have been registered, and 15 mostly broken by magpies, unregistered, making an average of 241.62 per duck.

Now we see that in the second year pure Indian Runner blood was introduced, and undoubtedly this explains the extraordinary increase in the number of eggs that the ducks produced in the third year—almost double the number laid than in 1920-21. It will be noted that "there was no attempt at selection beyond taking out those birds which looked most likely to cook well," yet these eight ducks averaged 241.6 eggs per bird, compared with 242.2 achieved by the leading pen of Khaki-Campbells officially recorded first of the 344 pens of all breeds entered in the National Bentley Test, 1920-21, and 26.6 eggs per bird ahead of the 14 pens entered in the "Fawn and White Section" of the competition.

(To be Continued).

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### IMPORTANT NOTICE.

Members are reminded that the financial year of the Association terminates on August 31st, and all subscriptions are due as from that date.

The subscription is a minimum one of 5s. per annum.

The names of members whose subscription is unpaid by October 15th, cannot be inserted in the Annual Register.

The Annual Register will be published in December, and a copy will be sent to each member whose subscription is paid.

Members who desire to register their birds, should apply to Mr. H. Mudie-Draper, Revesby, Holnfield Road, Leicester, for registration forms.

All applications for advertisement space in the Register should be addressed to Mr. F. J. Churchyard, 94, Farncombe Street, Bermondsey, S.E.16.

Alterations or corrections of address should be sent to the Hon. Sec. as soon as possible.

Members who desire the S.P.B.A. Badge should send one shilling with their subscription.

### INDIVIDUALISING THE BREEDER.

I have heard from a lady member who has recently started scientific breeding, and she tells me that in her pens she has never known an exception to the following rules, which have held good with seven different cocks and over 200 hens:—

(1) A hen is either "In" or "Out" of season, though she may be laying regularly, merely because we have bred an unnatural machine.

(2) When "Out" of season, the cock takes no notice of her, or she courts him persistently until he does.

(3) Infertiles may be fertile, but die in the shell.

(4) When "In Season" her eggs look quite different. The cock waits for her to leave the nest, mates immediately, and feeds with her, giving her all the tit-bits, roosts next to her. All fertile "these chicks come shouting out of their shells," and are happy chicks.

(5) When the hen stops laying for a few days altogether, then becomes combative all round, then lays a sequence of thirteen eggs, the cock will control every egg. These are the best sires and dams. You can see the difference in this hatch all through their career. Exception: The thirteenth is generally a dwarf.

### THE BATH AND BRISTOL BRANCH.

I visited the newly-formed Bath and Bristol Branch of the S.P.B.A. on Thursday last, and lectured on Nutrition. There was a good attendance, and I found the members very keen, some of them having journeyed several miles to attend the meeting. Mr. Elkington, the Secretary, and a very active committee are doing all they can to make the branch a success. Twelve new members were enrolled. I understand the



next meeting will be at Bath in October, when it is hoped that Mr. Price, the County Council Instructor, will read a paper.

During my stay I visited the Misses Ransfords' farm at Pensford, and inspected their splendid stock of White Leghorns. A hen, henceforth to be known as "Lady Bountiful The Fourth," was expected to celebrate my arrival by laying her 300th egg in thirteen months, but she failed, and laid it to celebrate my departure the next morning instead. A good egg, too, well shelled, and weighing 2½ozs. This hen is the direct descendant of the original Lady Bountiful, who laid 541 eggs in two years, 265 of them in her second year. To this hen the Misses Ransford attribute all their success, and no doubt she was the foundation of it, but, in addition, there was the appreciation of her value, the judicious matings, and the careful selection which has brought their stock to such a stage of perfection. In spite of all the wonderful records, the size of the birds was above the average; they were splendidly vigorous and alert, and the eggs were all well above the 2oz. standard.

#### A GRACEFUL COMPLIMENT.

The Council of the National Utility Poultry Society have invited Mr. J. G. Kitson, as President of the S.P.B.A.; to be one of the guests at the annual dinner of the Society, which is to be held during the Dairy Show. I am sure the compliment will be much appreciated by our members, and will do much to cement the cordial relations which exist between two societies, and which are a matter of gratification to members of both. The friendly rivalry which exists will only spur the two societies on to make greater efforts for the benefit of the industry whose interests they have at heart, and members of either will rejoice in the fact that whenever co-operation is desirable the two societies will work together whole-heartedly.

#### CHANGE OF ADDRESS.

Commander A. G. Tippet asks me to notify members that he has removed from his late address at Ross, Herefordshire, and has taken a farm at Hyde House, Goring Heath, Oxford, where he intends specialising in White Leghorns and Rhode Island Reds.

#### RESOLUTIONS FOR THE GENERAL MEETING.

The following resolutions to be submitted to the General Meeting have been received from Mr. Jas. Cowan:—

(1) Considering the sum of £119 1s. 7d. stated in last year's balance-sheet for postage to be excessive, I beg to move that all correspondents (members and non-members) who wish a reply by post from the Secretary, **MUST** enclose a stamped addressed envelope for reply. (This, of course, in addition to any fee charge non-members).

(2) "Eggs." I beg to move that Papers read at Branch meeting be published in full in a subsequent issue of "Eggs" (provided the writers of the papers are agreeable).

#### A SUGGESTION.

Mr. John Lightfoot suggests that members who purchase goods through the S.P.B.A. might be

inclined to give their discounts to the National Poultry Institute Fund for a time. I have also received the same suggestion from Mr. J. H. Ridley. What do you think of it? We are very keen to get the Institute, which means so much to the industry, and also to claim that £100 offered by Mr. Brook we raise £1,000.

#### TESTIMONY.

Mr. Stanley Tomkins very kindly sends me a cutting from a friend's letter which he has received from the centre of Africa: "I am extremely grateful to you for recommending me 'Eggs.' We read it with relish from cover to cover, including advertisements, and realise that great work is being done."

#### IF—

You wish to register any pens of birds in the S.P.B.A. register, please note that forms are ready now, and can be obtained from Rev. H. Mudie-Draper, Rev. Holmfield Road, Leicester. **THEY MUST BE FILLED UP AND RETURNED BY OCTOBER 15th.** None can be accepted after that date. If you wish your name and address to appear in the Annual Register, the subscription must be paid to the Secretary on or before October 15th. Please do not blame us if you neglect to pay your subscription and your name and address is omitted. There can be no exception to this rule.

#### REPLIES *re* DISEASE.

Will our members please note. Miss Knight does not answer questions relating to disease either by post or through these columns. *She undertakes the post-mortem work only.*

#### ANOTHER LAYING TEST.

The Balderstone and District Utility Poultry Society are holding their First Annual Laying Competition, under the management of Mr. Joe Edmondson.

Pens consist of five pullets, one of which is a reserve bird; the competitor has the right to choose his own reserve bird.

The competition is for 48 weeks. There are two sections, Light and Heavy breeds. Each pen will be accommodated with its own house and run.

The entrance fee is 25s. per pen. There are several valuable prizes offered.

Entries close October 1st. The Secretary is Mr. Peter Doolan, Dean Lane, Samlesbury, Lanes.

#### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager "Eggs," 94, Farncombe Street, London, S.E.16.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

R. S. (Woodthorpe). My laying formula is not by any means a forcing one, and if your birds are laying 75 per cent. on it now they are doing remarkably well. The Breeders mash which was given in the January 25th issue of Eggs was as follows:—Broad Wheat Bran 3 lbs., Alfalfa Meal 1 lb., Maize Germ 2 lbs., Sussex Ground Oats 1, Linseed Meal  $\frac{1}{2}$ , Dried Yeast  $\frac{1}{2}$ , Fish Meal impregnated with Cod Liver Oil  $\frac{1}{2}$ . In place of the Fish Meal, one pound of Dried Separated Milk or Buttermilk could be used and would be preferable. You are quite eligible for membership of the S.P.B.A., and we are sending you the necessary particulars.

C. M. (Heywood). As your birds will be on free range you can omit the Clover from the Mash and replace with Bran. I do not think your Wyandottes are likely to get too fat on this mash; nevertheless it is not a good plan to run light and heavy breeds together. If you use equal parts Kibbled Maize, Oats and Wheat you need not change the grain mixture the whole year round. The subscription to the S.P.B.A. is a minimum one of 5s. per annum; as the financial year has just started now will be the time to join.

Embryo (Colchester). I find many readers are anxious to take advantage of the low price of potatoes and use them as a poultry food. The mash you give will not answer, as the potatoe is very deficient in protein and you must do something to compensate for this. A cheap and economical mash would be:—Bran 2 lbs., Malt Culms 2, Potatoes 3, Middlings 4, Fish or Meat Meal 1 lb. This is, of course, dry weight, and the birds should be allowed as much as they will eat in a quarter of an hour. Make it crumbly, and the grain feed which should not exceed

1½ ozs. per bird should be equal parts good Oats, Kibbled Maize and Wheat.

T. E. G. (Brampton). I am afraid I cannot help you as to a system of book-keeping, as I do not know of one which is satisfactory. We published in "Eggs" of July 12th a balance-sheet by Mr. H. R. Hunter which was thought to be very satisfactory, but I will see what can be done on the subject. (2) The cause of the droppings may be an excess of Fish Meal or an excess of fibrous matter in the mash; the fact that you can control it by regulating the number of hours the hopper is open points to its being the excess of fibrous matter in the mash; suppose you alter it in this way: Twenty measure each of Bran and Middlings, 5 each of Sussex Ground Oats and Maize Meal, 3 Fish Meal, 1 Charcoal. May I refer you to "Eggs" of June 7th for formulas for dry mash from day-old. If you have not that copy and can wait until the register is published you will find them there from shell to maturity. I am pleased to have your appreciation of "Eggs."

Beginner (Hampshire). When you ask me what it costs to feed a hen at the present time and on what I base my estimate you are asking a difficult question, because so much depends on the manner in which people are able to buy, quantities and also proximity to markets. But take it in this way, I could mix a mash at £11 per ton, assuming the consumption to be 2½ ozs. per day, this would mean 5s. 10d. for mash feeding. Grain feed limited to 1½ ozs. per day at £10 per ton would bring it to 9s. 6d. per year or just about 2d. per week. I think this would be about right, although with careful buying it might be done for less, while in other cases it would cost more.

A. W. (Barrowash). It would not be advisable to send the pullet to the laying test which starts on November 1st as she is laying now; she would be almost sure to go into a moult at once. (2) If you keep her in good condition she will be fit for show on November 24th. (3) Allow eight inches per bird. (4) Ten per cent. (5) It will not "spoil" the shell if it gets wet, but it is much better to keep it dry. (6) I cannot answer this question, it would depend on what price you received for the chicks, the price you paid for the eggs and many other little things; if you send me more particulars I will try and answer it for you. (7) A good size for a nest box will be 10 in. x 10 in. (8) You will want well-drained land, sloping gently to the South, a light loam is the best, avoid clay or a very sandy soil.

Bradwick. "Pease tell me how to rear chicken that is White Leghorn cockerels to say 3 or 4 lbs. each and sell them at 1s. a pound, the price they are to-day, at a profit, at the price corn and food is to-day. I find it impossible, it costs me 9s. to 10s. to rear a bird to that weight and age. I always give them enough to eat, but do not waste anything; mind you they are in small runs."

I will answer your question fully later on; in the meantime I will only say that I would not attempt

to rear a White Leghorn cockerel to 3 or 4 lbs. weight and sell as a table bird at 1s. a pound, and that if it cost you 9s. or 10s. you must have been paying three times as much for food as you should do, or else there is some mistake.

H. C. (Derby). For the mash for your breeding hens add another pound of Bran, and reduce the Fish Meal to  $\frac{1}{2}$  lb., and add  $\frac{1}{2}$  lb. of Dried Yeast. Your birds have certainly done well, and to be getting 13 eggs a day from 20 hens at this time is excellent. (2) No, I would not breed from those May-hatched Wyandotte and Red cockerels next season. It is a very great mistake to use immature males in the breeding pen.

J. S. F. (Horley). The sample of Sussex Ground Oats is a very good one, but the Gluten Meal contains too much Maize Meal for a good sample. For pullets your mash from now could be: 1lb. Bran, 1 Clover, 4 Middlings, 1 Maize Gluten, 1 Sussex Ground Oats, and 1 Fish Meal. For breeding hens add another pound of Bran, and substitute Maize Germ Meal for the Gluten Meal. If you use the Dried Yeast I should recommend the ossified for your breeding pen. In that case you could substitute it for the Fish Meal, or use  $\frac{1}{2}$  lb. Fish Meal and  $\frac{1}{2}$  Yeast. Note.—These mashes are by weight, and the grain feed should not exceed 1½ ozs. per bird.

J. B. (Hitchin). I don't think your Ancona pullets, which were hatched in April, and now average 3lbs. in weight, are very small, but instead of using the mash to dry off the vegetables, which you mention, try the following: Cover the necessary quantity of good white oats with cold water, allow them to simmer on the fire until the water is absorbed, then dry off with equal parts bran and middlings. Give them a feed of this once a day and plenty of fresh green food. It is hardly correct to say that Light Breeds SHOULD lay at five months old and heavies at six. On an average the lights lay at 5½ months, which is quite early enough, and the heavies at 6 to 6½ months.

E. M. A. (Williston). If you mean by "matured" the date on which they are likely to begin to lay, your Wyandotte pullets may be expected to start about the first or second week in October. This will, however, depend on the manner in which they have been reared, their environment generally, and the stock from which they have been bred.

M. B. W. (Gravesend). I do not think the frost will affect the sunflower seeds, and your best way to feed them will be as one-fourth of the grain feed.

P.H.J. (Ulster). (1) If the cockerel is really "sappy" I should not use him in the breeding pen despite his dam's record. My experience is that a "sappy" cockerel does not breed good layers, and I think there is a sound explanation for it. (2) No, I would not use (1) and (2) in turn, but should always prefer (1). As to selecting pullets for the test, take note first of the head points, a prominent eye, standing out from the skull bright; reject the bird if the eye is dull, as this indicates low vitality. The beak should be short and stout, the lobes well developed, and not too much

creased, the plumage should be tight and the tail carried high; select a bird of medium size for her breed, and see that she is in "condition" to lay. There will be little fear of her being too fat, but it is quite possible that she may be too lean. You can ascertain this by feeling the abdomen. Don't send pullets which have started to lay, as they will be almost sure to moult. The breast bone should be on the short side, but proportionate to the length of back. They will need no special feeding before you send them.

Beginner (Norfolk). There is not much wrong with your feeding, but it would be advisable to reduce the potatoes to one part and increase the super to two, or as you wish to feed the potatoes because they are so cheap, reduce the ground oats by half a part instead. You must learn by observation the quantity of food your birds require, and not try and feed them by hard and fast rule. As they have the run of the barley stubble they should not need any grain feed for another month. You would not see any signs of gapes in the chicks which have recovered from the trouble, directly the cause was removed they would cease to gape; the drooping wings may be due to some other cause, especially as you are not quite sure that these chicks had gapes. You say you bought these chicks to gain experience in rearing; well, now you kill those with the drooping wings at once, they will never be any good, and experience will teach you that attempting to rear chicks of this description is the most unprofitable occupation you can engage in. A chick which lacks vitality will never pay for its keep, and is always a serious menace to the health of the flock. In any case your treatment does of castor oil and Epsom salts were altogether wrong. Castor oil should never be given to fowls. If your March-hatched pullets have been well managed they should be laying by the middle of next month.

T. R. (Saltcoats). The sample of Ground Oats are very inferior, full of husk, and it is a fraud to describe them as Sussex Ground. The Maize Gluten Feed is a fair sample, but contains too high a percentage of oil. The Maize Meal is inferior, and seems to be nothing but the siftings of Kibbled Maize.

### POST-MORTEMS.

Mrs. Spain. The drake's windpipe was malformed, but I do not think that caused his death. There was too much fat in the heart muscles. The liver was diseased. The lining of the gizzard was split. You give no particulars of your feeding. I think that, possibly, there may be something wrong with that. I suppose the bird could not have got any poison, could he?

"A. L., Salop." The bird had the condition described under "Fowl plague" in my recent article.

G. T. F. Your bird had cancerous growths in both lungs, and along the intestines. There was a little growth in the liver also. Any other bird that is definitely losing flesh should be isolated and watched as a suspicious case.

# HOW TO INCREASE YOUR POULTRY PROFITS

Lay a Firm Foundation by securing Healthy Recorded Cockerels.

**NOW is the time to BUY CHEAP.**

We have for disposal a limited number of March and April Hatched White Leghorn Cockerels from our Special Cockerel Breeding Pen that contained the following Birds:

Bird No.	Pullet Record.		PRICE:—
62	248	Mated to Cockerel Dam 281 Sire's Dam 284	<b>£1 1s. Od.</b> Each. Carriage Paid.
65	240		
67	242		
123	247		
142	238		
144	242		
146	239		
148	237		

All the above Birds have been reared and trapnested at "Lindhurst Poultry Farm," therefore we guarantee *the records authentic*. We laid our Foundations a few years ago by purchasing the Best of Birds from Edward Cam, of Hoghton, near Preston, Regardless of Price!

Telegrams:— . . . . .  
 . . . Utility. . . . .  
 . . . . . Wilmslow



Telephone:— . . . . .  
 . . . 162 Wilmslow

*Full Particu-  
lars sent with  
each Bird.*

**Lindhurst  
Poultry Farm**

Moor Lane,  
WILMSLOW.  
CHESHIRE.

M.S.P.B.A.

N.U.P.S.

*Inspection  
Invited.*



# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note: OUR FOODS CONTAIN COD LIVER OIL.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ...	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ...	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ...	17 6
Alfalfa Meal ...	22 0	Kibbled Maize (Screened) ...	14 6
Green Clover Meal ...	18 0	Bearall 1st Chick Feed ...	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ...	21 0	Thryvon 2nd Chick Feed ...	22 0
Meat Meal (65 per cent. Alb. and Fat.) ...	23 0	Matua Chicken Mixture ...	20 0
Chick Rearing Meal (Special), impregnated with 1½ per cent. Cod Liver Oil (no milk required) ...	20 0	Yeast ...	19 0
			20 0

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
**Mr. BRUCE WILCOCK, A.P.F.D.,**  
as our Poultry Expert. Should you be in  
any difficulty we will be pleased to assist you.  
Our information bureau is free to all.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS.**

### NOTE NEW PRICES.

#### GENUINE

#### SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.
Dried Skimmed Milk ...	24 0
Sussex Ground Oats ...	16 0
Maize Meal ...	11 0
Maize Gluten Feed ...	12 0
Pea Meal ...	16 0
Bean Meal ...	16 0
Meat Meal (Fine Ground) ...	22 6
Fish Meal (Best White) ...	23 6
Biscuit Meal (Fine) ...	22 6
Clover Meal ...	18 0
Broad Bran ...	12 0
Middlings (Best Fine White) ...	14 0
Middlings (English) ...	12 0
Feed Wheat (Best English) ...	15 6
Feed Oats (Best English) ...	15 0
Kibbled Maize (Sifted) ...	12 0
Flint Grit ...	5 0
Limestone Grit ...	5 6
Oyster Shell ...	8 0
Cockle Shell ...	6 6
Rolled Wheat (for Chicks) ...	15 0
Dried Yeast ...	20 0
Pinhead Oatmeal ...	28 0
Whole Oat Groats ...	28 0
Broken Rice ...	16 0
*No. 1 Chick Feed ...	22 0
Mash for Laying Hens ...	18 0

(Both the latter are Mr. Tom Newman's Recipes.)

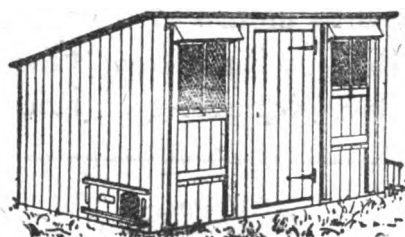
FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
*Britannia Mills,*  
**HEATHFIELD, SUSSEX.**

## GREAT BARGAIN!



**Only £5 Free on Rail.**

This house is 9ft. 0in. x 5ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected tin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-; if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**  
'Phone: 521 SHIPLEY.

### REDUCED PRICES.

#### CLARK'S PURE SUSSEX GROUND OATS.

#### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original *Milham*  
process.

	s. d.
7lb. Bags ...	2 6
12lb. Bags ...	3 6
28lb. Bags ...	7 6
56lb. Bags ...	12 6

#### PRICES PER OWT.

	s. d.
1 cwt. ...	25 0
3 cwt. ...	24 0
6 cwt. ...	23 0

Carriage Paid nearest Station in  
England and Wales.

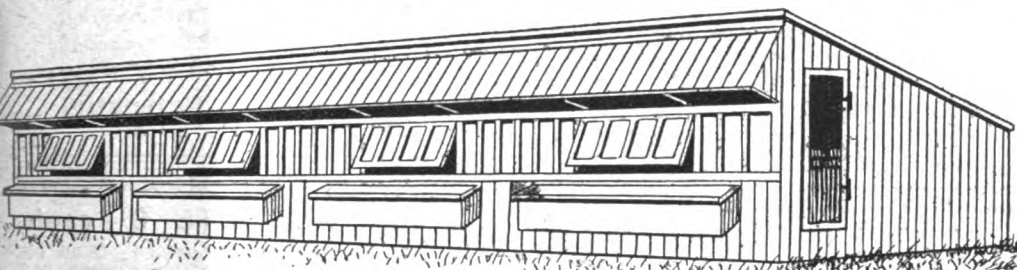
Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.**  
**56, HIGH STREET,**  
**LEWES, SUSSEX.**

GOOD SELECTION OF MY GOODS EXHIBITED ON M. E. STUBB'S STAND AT ALTRINCHAM SHOW GAINED

**SILVER MEDAL** These Goods were taken from my usual Stock.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.**  
The South of England Poultry Yards and Appliance Works,  
**HAMWORTHY JUNCTION. DORSET, ENGLAND.**



No. 1.	6ft. long, 10ft. wide	£14 5 0
2.	10ft. long, 10ft. wide	£19 4 9
3.	16ft. long, 10ft. wide	£27 1 6
4.	20ft. long, 16ft. wide	£42 5 6
5.	30ft. long, 16ft. wide	£62 5 6
6.	40ft. long, 16ft. wide	£82 3 6

FLOOR AND SLEEPERS.

No. 1.	...	£3 6 6
2.	...	£4 0 3
3.	...	£7 12 0
4.	...	£14 9 9
5.	...	£20 3 9
6.	...	£26 2 6

**THE "POPULAR" SEMI OR INTENSIVE HOUSE.**

PENETRATING, the best preservative, IS INCLUDED.  
SLEEPERS, which are penetrated, ARE INCLUDED.  
WATER FOUNTAINS, best galvanised iron, ARE INCLUDED.  
DRY MASH HOPPERS, also best made, ARE INCLUDED.

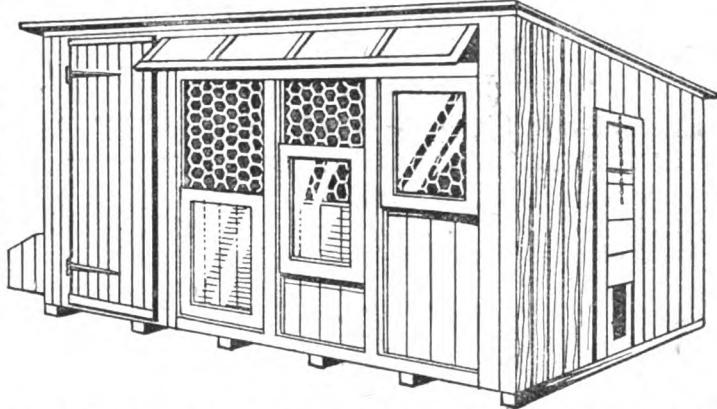
BEST 2-PLY FELT ON ROOF, THIS IS INCLUDED.  
DROPPING BOARDS, PERCHES, BOLTS, LOCKS, LATCHES, GLASS TWO WIRE  
DOORS to No. 3 Size, and up, IN ADDITION TO WOODEN ONES. All Prices.  
Less 5 per cent. to M.S.P.B.A. CARRIAGE PAID.

**The "FAVOURITE" House.**

These houses are so constructed that you can have a comfortable house and scratching room combined, fitted with dropping board and perch, floor, felted roof and nest boxes complete. Glass Shutters and Hood. ½ matching on stout framing.

No. 1.	6ft. long, 4ft. wide, 5½ft. high	£7 5 0
2.	6ft. long, 5ft. wide, 5½ft. high	£8 15 6
3.	7½ft. long, 5ft. wide, 5½ft. high	£9 15 6
4.	8ft. long, 5ft. wide, 6ft. high	£10 13 0
5.	9ft. long, 6ft. wide, 6ft. high	£12 7 6
6.	10ft. long, 6ft. wide, 6ft. high	£13 7 6
7.	12ft. long, 6ft. wide, 6ft. high	£13 19 6

CARRIAGE PAID.

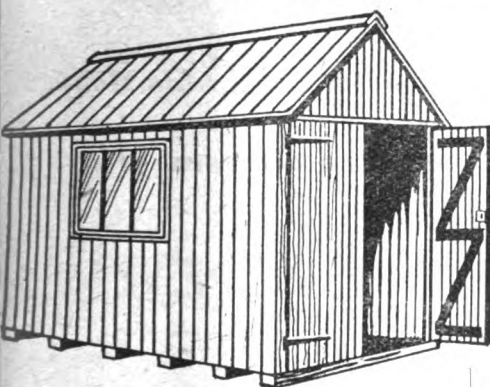


**THE "POULTRYMAN'S" GARAGE**

Made in 7 Sizes, all of ½ wood, on stout framing, the floor being made of best lin. matching.

No.	Dimensions	Felted Roof. Penetrated.
No. 1.	11½ft. long, 7ft. wide, 6ft. eaves, 8½ft. ridge	£15 14 0 16/6 10/6
2.	13½ft. long, 8ft. wide, 6½ft. eaves, 9ft. ridge	£19 6 0 21/- 12/-
3.	15ft. long, 9ft. wide, 7ft. eaves, 9½ft. ridge	£22 10 6 27/6 13/6
4.	17ft. long, 9½ft. wide, 7½ft. eaves, 10ft. ridge	£26 7 0 32/6 15/-
5.	18½ft. long, 10ft. wide, 8ft. eaves, 11ft. ridge	£30 2 6 38/6 16/6
6.	21ft. long, 10ft. wide, 8ft. eaves, 11ft. ridge	£33 5 0 43/- 18/-
7.	22½ft. long, 12ft. wide, 8½ft. eaves, 11½ft. ridge	£37 10 0 50/6 19/6

ALL CARRIAGE PAID.



5 per cent. Extra for Carriage Beyond the NETH OF FORTH and to the CHANNEL ISLANDS.

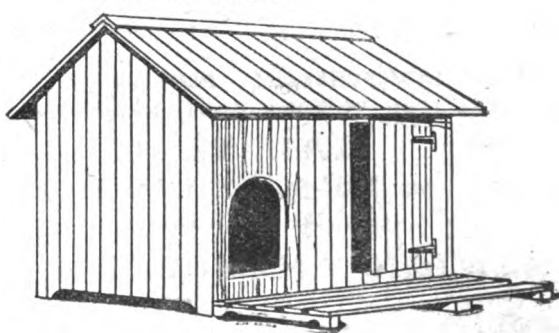
**WARNING.**

NE valuable Pullet lost in a badly constructed house pays the difference between a bad and good house.

**The "Poultryman's" Kennel.**

- 2ft. 6in. long, 18in. wide, 2ft. high, for Terriers, £1 5s. 6d.
- 3ft. 6in. long, 2ft. 3in. wide, 3ft. 6in. high, Retrievers, etc., £1 19s. 6d.
- 4ft. 6in. long, 2ft. 9in. wide, 4ft. high, St. Bernards, etc., £2 12s. 6d.

CARRIAGE PAID.



ALL GOODS SUBJECT TO 5 PER CENT. DISCOUNT TO M.S.P.B.A.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-; ½-cwt. parcels, 13/-; ¼-cwt. parcels, 7/-

Carriage-Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 1921 PULLETS 6/- each.

WHITE LEGHORNS, proved L2 birds, which will make excellent Breeders next season. Only few left. Carriage Paid Six.

### STOCK COCKERELS.

BLACK and WHITE LEGHORNS, April hatched, from L2 stock. -10/6 and 15/- each. Carriage Paid.

### 1922 PULLETS.

A Limited Number of WHITE LEGHORNS, from 17/6 each.

Full Particulars on request.

Approval. Crates to be Returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.  
QUEENBOROUGH, near LEICESTER

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

Gives Instructions relative to the Prevention and Cure of Diseases, in his Book,  
**"HEALTHY POULTRY."**

Supplied on Application **FREE OF CHARGE** by the Manufacturers of

FLUID **IZAL** POWDER  
DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

Miss Boys. Your bird had tuberculosis of the liver and spleen. It is probable that the other hen that died may have had the same disease. Any birds that are steadily losing flesh should be isolated and watched.

"Craven." Your duck had swallowed a piece of fine wire. That had perforated the gizzard, and allowed the food to escape. All the L. side of the abdomen was gangrenous, in consequence.

Lt.-Col W. T. You did not say in which paper the report was to be put. The cockerel's left kidney was much enlarged, and was blocked with urates. The right kidney was almost absent, being represented by a fibrous band. So the left kidney had to do the work of both. There had been haemorrhage into the lowest part of the left kidney. There was also superficial haemorrhages in the gizzard, as described in "Fowl Plague." You don't say how much of each ingredient you give in the mash; e.g., what percentage of fish meal do you put?

A. Woodard. Your bird's kidneys were blocked with urates, and there was a deposit of the same on liver, heart, etc. That means that she had had too much animal food. You say you are giving Mr. Newman's mash. Are the birds on free range or shut up? Birds on free range should not have any animal food while worms are abundant, and Mr. Newman's mash contains enough animal food for birds who get no other. But if your birds be shut up, I must suppose that there was something in the bird's constitution which made her unable to dispose of as much animal food as normal birds can.

M. Neame. Your bird was badly decomposed and full of maggots on arrival. On account of her state, it was not possible to see her condition very well, but she had certainly broken a yolk sac, and she had congestion of the lungs. There also appeared to be some of the small haemorrhages mentioned under "Fowl Plague." On account of the rapid decomposition I think it probable that she had a very high temperature before death. Under these circumstances, and as you have lost several others in a few days, I think she probably had an infectious disease. If she had been fresh, I would have examined to see if I could find any germs. You had better disinfect the house and put disinfectants into the drinking water.

A. Woodard. The second bird has not arrived at the time of posting this, nor fee for same.

"Doubtful." Your bird had cancerous growths in the liver and spleen.

"R. P. 244." Your bird's kidneys were enlarged and the liver contained too much fat. Your feeding seems quite satisfactory (unless the birds are on free range, in which case the fish meal should be cut out this time of year), so I think that there must have been some defect in the bird's constitution.

## MARKING OF FOREIGN EGGS

By A. C. C. S.

Replying to your correspondent, H. Atkins, whose letter appeared in your issue of the 30th ultimo.

(1) *The present low price of English eggs.* I scent something here, for the opposite to low is high! and I suppose H. A. is one of those individuals who, like the remainder of those engaged in the Commercial Egg Industry, has benefited by lower wage bills, cheaper food, cheaper timber, etc., in fact everything is down, including quite properly the price of English New-Laid Eggs. As regards those who cannot produce eggs at a profit it is as well to ignore them for the moment. They will be out of the business in twelve months' time or two years at the latest! Of course, they may become more efficient and pull through. This letter will, no doubt, make them grumble still more.

(2) *Competition.* Why should this be conspicuously labelled Unfair? Where is the unfairness in the following:—XY. is offering eggs—English New Laid at 25s. per 120, and VZ., three miles away or more, is prepared to accept 24s. In order to secure the business XY. must cut his price to that of VZ., or even lower—but not necessarily. That is competition, and where is the unfairness? even if we substitute Siberian for VZ. Salvation lies in your being able to place your produce on the markets at the same costs as your competitor.

English Commercial Egg Producers know the food value of the English New-Laid Egg, and possibly they are aware of the food value of the Siberian Egg. But what "gets their goat" is do the English egg-buying public know? As far as the latter are concerned I think that generally speaking all they want is a good egg and not a bad one. If a woman goes to a shop and is told that the eggs offered are English New-Laid, how can she tell, and what an important point this is, too. She cooks one of these eggs, and it turns out a good one—well, it's English as far as she is concerned, because it is not bad; even if it is a foreign egg; from her point of view it is as satisfactory as an English one, since it is good.

(3) *Marking the Foreign Egg.* Is this altogether the most practical? I can visualise "Country of origin inspectors"—enormous armies of them, government employees, with miles of cages of eggs before them at our big ports all to be opened, and each egg individually examined AND RE-PACKED. Really for this reason alone I do not consider this a practical scheme. As a present-time palliative against unemployment; no doubt our Labour "fans" would welcome the scheme, but think of the taxpayer, and Mr. Egg-Producer, you are one of those, and your costs must be lower!

As regards dragging our wearied M.P.'s into it, well what are we to tell them, simply this, I suppose, "We cannot get enough profit out of our sale of English Eggs, and we consider—in fact, we know—it is due to importations from abroad. Our markets are flooded and prices are so low! In fact, etc., our salvation lies in having these eggs marked." Your M.P. will reply, I feel sure, somewhat in this strain: "By mark-



ing foreign eggs, the English public will stand aghast when they see them, they won't buy a foreign egg, of course. And, naturally, the foreigner, will cease to send them over!" "Tell me, Mr. Egg-Producer," "What happens to the price of English New-Laid Eggs?" "Methinks as they are low now they will soon be the opposite—high." "What guarantees can you offer that they will be unobtainable below 6d. in the winter?" "Or is your industry immune from the economic principle, demand creates supply, and if the supply is below the demand, will not the price automatically rise?" "No, I think you will agree the country is crying out against the high cost of living—yes I know you are too." "Well, yours is a poor argument." "Further, can you say with any degree of accuracy that the public wish to be rid of the foreign egg?" "Personally, I don't think they do! They are cheap, as long as they are eatable—and do you really believe that the remedy lies in simply marking the imported egg?" "No, Mr. Egg-Producer, I think you are a little too selfish. Introduce better business methods, and I am sure you will succeed." "Besides, I am putting myself forward at the next General Election, and where do you expect to find me if I commence to address my electors with 'Away with the 2d. foreign egg, although it is good let's have an English one at 6d.'?" "I shouldn't like to bet on my £400, and railway expenses."

And now, Mr. Editor, I would like to ask, Is the English Poultry Industry entitled to such favouritism? The question must not be answered under the "importance," etc., cloak.

I have criticised your correspondent's letter, and I think you will, on consideration, agree his view is narrow. He has been looking all the time to the Right, forgetting the Left—in other words, the Left represents the purchasing public, the Right the industry.

Having criticised, I suppose I should submit what I, as critic, consider a remedy. I will do so readily, but having demanded so much of your valuable space already, I propose to write you again next week.

In conclusion, why not set out to reverse the position and capture the foreign markets, from which we now obtain so many eggs. Control of our own markets will then naturally be assured.

## Correspondence.

### MARKING OF FOREIGN EGGS.

To the Editor of "Eggs."

Dear Sir,—I am glad to see from your reply to Mr. Atkin's letter this week on the subject of the "Marking of Foreign Eggs" that the industry is overwhelmingly in favour of this, and more especially that the N.P.C. is working hard to secure this end, but I think it a thousand pities that so much good work should be done "in camera." After all why should there be so much state secrecy in the matter? We are making a very legitimate demand, and this is probably being

opposed by "vested interests," and the readers of "Eggs" and other poultry papers would like to hear what is said for and against it, and know at the same time who were for and who were against us. At present we are kept so much in the dark that we get annoyed, and think nothing is being done.

Referring now to Mr. Andliff's letter last week in which he refers to this country being the "egg dump" for China, Egypt, and European countries, he might have gone further, and said the "chicken dump" also. From Board of Trade statistics we imported in 1913, 278,465 cwt. of dead poultry valued at £954,540, of which 119,944 cwt. came from Russia. In 1920, although we only received 94,464 cwt., the value was nearly as much, namely, £871,872. The decrease was mainly attributable to Russia, who only sent us 66 cwt., whilst in 1921 she sent none. Chinese imports of dead fowl, however, were only 20,025 cwt. in 1913, valued at £51,715, increased to 51,715 cwt. in 1920, valued at £422,272. Now my point, Sir, in giving these figures is to emphasise the necessity of the N.P.C. placing foreign eggs and foreign poultry in the same category and fighting for our rights in each case at the same time. Nothing could be more inconsistent and indefensible than our present legislation in regard to imported meat. Beautiful New Zealand mutton must be labelled "Imported," lest the British public should purchase foreign meat without knowing it, but any scallywag of a chicken from the dirty bazaars of "heathen Chinese" can be sold without let or hindrance in our markets, which, as Euclid would have said, is absurd.

H. A. SULLIVAN.

Havant.

### FELT HOUSES.

To the Editor of "Eggs."

Dear Mr. Newman,—I read with interest the letter by Mr. R. C. Beattie in your issue of August 30th. It does not, however, give us any details as to construction, and particularly whether he uses wire netting and an inner layer of felt as well. Three years ago I built a house to accommodate 32 birds on this principle, and it shows no signs whatever of any deterioration. I can also confirm his remarks about the absence of red mite. The advantages of wire netting—3in. mesh will serve—are as follows: (1) It materially strengthens the framework, over which it must be tightly stretched and obviates the necessity of using any diagonal battens. (2) It lends support to the outer felt in a wind, and fewer are, therefore, required. If these are 1½in. x 2in., they may be spread apart as far as 17½ inches centre to centre, whilst 2-ply felt will be sufficiently thick. (3) It affords a certain amount of protection against evilly disposed persons bent on theft.

The disadvantage is, that unless an inner layer of felt be used, the litter tends to accumulate between the netting and the felt, from the scratching of the birds, and is difficult to dislodge; also it makes the house warmer.

For the roof wire netting must be used under the outer layer, and if the space between the two layers is packed with straw, saw dust, or machine shavings, I know of no form of roof more satisfactory. It is easily

and cheaply made, cool in summer and warm in winter. Tarred felt is useless for this form of house. A good bituminous felt must be used. The price is approximately 8s. per roll of 12 yards.

F. W. HARDY.

Ealing.

### EGG PRICES.

(To the Editor "Eggs.")

Sir,—Apropos the Subject of Egg Prices. I have just come across what is stated to be the views and remarks of Mr. C. M. Sonne, President of the Royal Danish Agricultural Society, who is on a visit to London in connection with the Olympia Exhibition. Amongst other things, Mr. Sonne expects the exports of eggs this year from Denmark to other countries will reach 40,000 tons, and that next year the highest pre-war peak will be attained, **if not surpassed**. He goes on to say co-operation is, of course, the basis principle of Danish farming.

The point is surely an interesting one, for I gather the co-operative system applies to Egg Farms in addition to Dairies, assuming that, of course, Commercial Egg Farms are in vogue as in this country. Perhaps one of our "travelled" members would care to provide us with a general idea of the Danish methods. There can be no doubt that a measure of co-operation which permits firstly of satisfying home demands and then exportation is to be carefully examined. No matter what the scheme is, surely we can apply it in England.

A. C. C. S.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—I have read with great interest your article, and also the letters in "Eggs" on "Our Present Position." From what I can see everybody seems to look at this matter from a very narrow point of view, each sticking to the one point he has in his head. I agree with "Ex-Airman" about the National Farmers' Union, and would like to see a National Poultry Farmers' Union.

I am myself a member of the Farmers' Union, and I would like to say that if a Poultry Farmers' Union was started it would have to be different than the Farmers' Union, or else it would be useless. The majority of agriculturists in this country do not seem to grasp the fact that Unity is Strength, and until they do nothing very much can be done.

There are a great many points which must be considered in regard to egg prices. To start with the matter must be gone into as to how it is possible for foreign eggs to be put on the market at so low a price. Look for the cause of the trouble before you try to remedy it.

There are two great points in favour of the foreigner at present, one is the rate of exchange, and the other is co-operative buying and selling. The former we have no power over. Let us hope it will right itself soon. The latter point we could do a great deal in this country.

As regards the point of marking Foreign Eggs, has it ever been suggested that ALL English eggs should be marked. There are millions of foreign eggs sold every year as English new-laid; they are mixed by the retailer, who reaps the profit.

It is useless to try and tax foreign eggs, or something like that. What we must do is to find the cause of foreign eggs being marketed so cheaply in this country; then we have something to work on. There is also not half enough experienced labour in the poultry industry; there is also too great an expense on every thing we have to buy. Therefore, we must buy co-operatively as well as sell. I could write more, but these are the main facts, I think.

Yours truly,

N. S. WOOD.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—Your Editorial on the marketing of eggs is timely, and if anything too moderate in tone. There is ample evidence of the fact that the British eggs only too often deserve the low price they get, owing to the unscrupulous way in which general farmers hold up supplies for a rise.

I have seen eggs gathered from a hedge, cleaned and sold to the higgler, except those with extra sensitive contact fuses, which explode when touched.

May I suggest that the facts being such, the S.P.B.A. could do a great deal more for the small man—the big poultry farmer is able to look after himself—by putting them in touch with egg merchants, who are known to pay up, and pay the best price for guaranteed. We could soon organise into small Co-operative Associations to ensure a supply large enough to make it worth their while. Why not a page in the Register for merchants with good characters like we have. An advertisement in "Eggs" should be profitable to such. I have, it is true, seen such advertisements in other poultry papers, but, to our sorrow and loss, we, many of us, know that the poultry press generally is not too particular about the known record of advertisers.

Yours truly,

M. O. BOYD (Scorrier).

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—I have read with much interest your reply to my letter on "The Present Position," also the letters from correspondents. "Ex-Airman" is perfectly clear, it seems to me. He suggests that a club or union is needed to protect British Egg Producers from being exploited by the middlemen. Is not that what we mean by the "purely commercial" side? Retailers demand and take as much as 6d. per dozen profit on eggs; Producers cannot make so much. A good union would concentrate on getting their members a fair share of the profits. Local representatives could keep in touch with the retailers in the different districts, visit farms, and advise members as to the best marketing of the produce, the best and cheapest buying of foods at the moment, etc. It is not to the interest of the poultry world

that any farmer should be compelled by circumstances to sell at too low a price. Unscrupulous persons can hold up their eggs for the price to rise, and then flood the market with stale eggs. Good and bad seem to go for the same price. No wonder the consumer turns to the foreign egg.

You may perhaps refer me to the "British Egg Producers' Society." I have already taken a share in it, but I find their proposals very poor from a financial point of view. They offered no better terms a short while ago, if as good, as the local market.

As you say in your issue of 13th September, "The foreigner has studied our markets. He has received every **encouragement, advice, and information** from the importer." Cannot we have a society which will do the same for us? Why not the National Poultry Council? An ACTIVE organisation is the answer to all our troubles.

Yours faithfully,

"YOUR HAMPSHIRE CORRESPONDENT."

#### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Mr. Newman,—I found your Editorial in the issue of "Eggs," dated September 13th, on "The Present Position" most interesting. I think I know the firm, to which you refer, that had to stop supplies from the West of England on account of the large percentage of bad eggs. If so, I can give you the facts as to the way these eggs are collected. There is a weekly collection of eggs at all the farms in the district, and I believe the current price per dozen is 1s. 1d. The farmers, in the hope of getting a better price, keep back the eggs for many weeks, and there is no reason why one should be surprised that a great many are bad. Only small farms are usually visited by the collectors, who, perhaps, get a few dozen at each farm, but sufficient are collected in the district to send large consignments of poor quality eggs to London. This is how the English egg gets a bad name.

The dealers do not go to the egg-farmers for their eggs, as they have to pay the market price (low as it is), and I do not blame them if they can get them elsewhere at one penny each. But is it fair to compare these low grade eggs with Danish best? All commercial egg farmers, disgusted with markets and dealers, send their eggs direct to the retailer. It is not Danish competition, I fear; these eggs are at least good quality. I object to England being a dumping ground of Chinese and other low grade eggs, which no other country would look at. It is such eggs as these which congest the markets. I think that it is in such a district as I have mentioned that co-operation, fining farmers heavily for bad eggs, is needed. I think this is the only way of preventing the English egg from getting a bad name.

I am rather in favour of a tax on eggs, but I leave this question to those with superior brains to mine. I think the English markets are thoroughly bad, not only for the egg producer, but for the market gardener.

I do not think egg-producers always try to get good prices for their eggs. I have worked up a small private trade, and this year I have not received less than 2s. 6d. per dozen (7 to the lb.).

I do not think the industry is in a bad way, but we must protect it against such evils as these. We must remember that the prices of eggs must gradually come down. Finally I ask, Why allow eggs to be imported when sufficient can be produced in this country? I feel sure that it is the low price given in this country that is the only cause of low-grade eggs.

Yours truly,

"MIDDLESEX."

#### OIL-HEATED HOT-WATER PIPES.

To the Editor of "Eggs."

Dear Sir,—I wonder if any readers of "Eggs" have adopted oil-heated hot-water pipes for brooding on a small scale, for, roughly, 52 to 60 feet of piping in a house 20ft. x 10ft.

I can quite understand that such a system would be expensive to run, but I do not think that a coal stove would give good results with such a comparatively small volume of water; in other words there would be a drop in temperature in the early hours of the morning, the same as with the anthracite brooder stove, which I have used for two successive seasons, but never again.

Yours truly,

"NOVICE."

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, SEPTEMBER 21st, 1922.

**GRAIN AND FEEDING STUFFS.**—New wheat is mostly of poor quality, but demand shows some improvement and prices are inclined to advance. A better trade is passing for imported wheat, spot supplies being scarce and dearer. A few samples of English malting barley have been offered. Barley for grinding purposes meets a slow trade. Oats are in fair supply, but demand is slow except for seed purposes, and quotations are practically unchanged. Spot supplies of imported oats are scarce and prices show a harder tendency. Millers' offals are easier in value and meet with a fair demand. Maize is steady at recent rates.

**MILLERS' OFFALS.**—Bran (British): Bristol, £6 7s.; Hull, £5 17s.; Liverpool, £6 5s.; London, £6. Broad Bran: Hull, £6 17s.; London, £7 10. Fine Middlings (Imported): London, £9 2s. Coarse Middlings (British): Bristol, £9 7s.; Hull, £8 17s.; Liverpool, £9 5s.; London, £8 5s. Pollards (Imported): Hull, £6 10s.; London, £6 5s. Rice Bran: Bristol, £8; Liverpool, £7 5s. **MEAL.**—Barley Meal: Bristol, £11 2s.; Hull, £10 15s.; London, £11 5s. Maize Meal: Bristol, £10; Hull, £9 7s.; Liverpool, £9 10s. Maize Meal (S. African): Liverpool, £8 15s.; London, £9 5s. Maize Germ Meal: Bristol, £10 5s.; Hull, £9 5s.; London, £9 5s. Maize Gluten Feed: London, £9.

#### EGGS AND DEAD POULTRY.

Eggs are becoming scarcer and prices continue to advance. Week-end prices per 120: English, 25s., 26s.; Irish, 23s., 24s.; Dutch All Brown, 23s., 26s.; Danish, 18lb., 23s. 6d., 24s.; French, 21s., 25s.; Chinese, 11s. 6d., 12s. 6d. Dead Poultry.—London: Surrey Fowls, 1s. 9d., 1s. 6d. per lb.; Irish, 1s. 3d., 1s.; Others, 1s. 6d. 1s. 2d.

#### EGGS.

Per Doz.—Ashford: First, 2s. 9d.; Second, 2s. 8d. Birmingham: First, 2s. 6d.; Second, 2s. 4d. Carlisle: First, 3s. 0d. Chelmsford: First, 2s. 6d. Denbigh: First, 3s. 0d.; Second, 2s. 9d. Derby: First, 2s. 3d. Dorchester: First, 2s. 7d. Exeter: First, 2s. 6d. Hereford: First, 2s. 3d. Hull: First, 2s. 2d. Ipswich: First, 2s. 6d.; Second, 2s. 8d. King's Lynn: First, 2s. 4d. Llandilo: First, 2s. 3d.; Second, 2s. 0d. New-

(Mon.): First, 2s. 6d.; Second, 2s. 4d. Norwich: First, 5d. Oswestry: First, 2s. 10d.; Second, 2s. 9d. Penzance: First, 2s. 0d.; Second, 1s. 11d. Salisbury: First, 2s. 8d.; Second, 2s. 7d. Shrewsbury: First, 2s. 9d.; Second, 2s. 6d. Tipton: First, 2s. 3d. Taunton: First, 2s. 3d. Truro: First, 10d. York: First, 2s. 9d.

## FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, 4s. 0d.; Second, 2s. 3d. Exeter: First, 1s. 9d.; Second, 1s. 6d. Hereford: First, 1s. 4d. Ipswich: First, 5s. 6d.; Second, 3s. 6d. Llandilo: First, 1s. 9d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 7s. 0d.; Second, 5s. 0d. Shrewsbury: First, 5s. 0d.; Second, 4s. 0d. Truro: First, 1s. 7d. York: First, 5s. 6d.; Second, 4s. 6d.

## DUCKS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 1s. 2d. Derby: First, 4s. 6d.; Second, 3s. 6d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 9d.; Second, 1s. 7d. Newport (Mon.): First, 1s. 9d. Shrewsbury: First, 7s. 0d.; Second, 5s. 0d. York: First, 7s. 0d.; Second, 5s. 0d.

\* Per Head.

## APPLICANTS FOR MEMBERSHIP.

Lund, Whiteley, 41, Fell Lane, Keighley.  
 Roberts W., Umtana, Welland, Nr. Malvern.  
 Seed, Miss D., River Poultry Farm, Wootton Road, Gaywood, King's Lynn.  
 Garnett, A. E., 61, Welsh Row, Nantwich.  
 Narker, B. R., The Hut, Hurstpierpoint, Sussex.  
 Stake, T., Health Department, St. Peter's Chambers, Glebe Street, Stoke-on-Trent.  
 Dunford, Miss C. E., Buccleuch House, Thorpe Bay, Essex.  
 Henning, C. A., Elmton, Nr. Saffron Walden, Essex.  
 Martin, F. Ellis, 5, Bernis Mount, Bude, Nr. Colchester.  
 Biggs, J. A., Roundwood Poultry Farm, Charing, Kent.  
 Pass, Harry, Rockliffe, Park Parade, Rother, Sunderland.  
 Nolan, Miss M. M., B.A., The Wainstown P.F., Batterstown, Co. Meath, Ireland.  
 Barnett, C., Mill Lane, Tunstead, Norfolk.  
 Fowler, F. R., Durley Dean, Gildredge Road, Eastbourne.  
 Spriggs, Dr. N. I., 105, Princess Road, Leicester.  
 Rice, A. W., 3, Lodgegate Broadway, London, E.C.4.  
 Hancock, Marcus, Mersham Mills, Kent.  
 Neill, Mrs. S. B., Brooklands Cottage, Woodbury, Salterton, Nr. Exeter, Devon.  
 Brown, Miss A. M., Victoria House, Leighton Buzzard.  
 Gibb, J., The Nest, Glebe Road, Rameden Bellhouse, Essex.  
 Smith, B., 77, Church Road, Redfield, Bristol.  
 Paget, Major Kenneth E., Bishop's Sutton, Akresford, Hants.  
 McMullen, Miss, Little Berkhamsted, Hertford, Herts.  
 Baker, W. A., Manner Farm, Biddenden, Kent.  
 Jones, Walter, 35, Paradise, Iron Bridge, Shropshire.  
 Taylor, S. T., "Advertiser" Buildings, Heywood.  
 Bailey, Miss Edith S., Ashby Road, Utility P.F., Daventry.  
 Wilcocks, Frank Walter, 31, York Street, Bromboro' Road, Poole, New Ferry, Cheshire.  
 English Grains Co., Ltd., The Works, Derby Road, Burton-on-Trent.  
 Hay, Mrs. J. D., Glencarn, Bridge of Earn, Perthshire, N.B.  
 Ebrall, W. H., 9, Searns Road, Oxtou, Birkenhead.  
 Nalder, Lt. E., 2, Cross Lane, Bebington, Cheshire.  
 Bentley, Miss A. K., Sandfield, Pipers Lane, Heswall.  
 Cookson, Thos. J., 26, Waterpark Road, Prenton, Birkenhead.  
 Howard, R., Millfield, Thingwall, Nr. Birkenhead.  
 Hutchings, A. G., Woodlands P.F., Moreton, Birkenhead.  
 Brainger, G., 9, Tunnell Road, Birkenhead.  
 Bromley, R. S., 116, Well Lane, Birkenhead.  
 Willen, W. H. E., "Fair Haven," Kempshott, Nr. Basingstoke, Hants.  
 Busch, N., 23, Alderbrook Road, Nightingale Lane, Clapham, S.W.4.  
 Collinson, J. T., Bryanston, Peulwys Road, Old Colwyn, N. Wales.  
 Latin, J. E. G., 12, Victoria Road, Madeley, Salop.  
 Brown, E. A., 8, Hinckley Road, Earl Shilton, Leicestershire.  
 Hudson, E. Hugh, St. Catherine's P.F., Guildford.  
 Hood, E. B., Holding No. 12, Windmill Road, Kirkcaldy.

McDowell, Mrs. M. C., Dunany, Dunleer, Co. Louth.  
 Hodgkinson, J. W., 90, Wensley Street, Blackburn, Lancs.  
 White, Capt. John E., Peacehaven P.F., Peacehaven, Sussex.  
 Clarke, Miss E. M., Stud Farm, Shenton, Nuneaton.  
 Lewis, Lewis H., Plascadwgan, Clydach, Nr. Swansea.  
 Kelsall, C. M., Greenbank, Worting, Basingstoke.  
 Mosley, Cyril, 77, Manchester Road, Heywood, Lancs.  
 Wilson, Mrs. Alec, Garth, Breconshire.  
 Gardner, H. J., East Wanthly, Storrington, Sussex.  
 Thorne, C. E. D., Plough Farm House, Ewhurst, Nr. Cranleigh.  
 Hazell, A., 19, Elm Street, Hoyland Common, Nr. Barnsley, Yorks.

NATIONAL POULTRY INSTITUTE  
AND RESEARCH STATIONS.

## SEVENTEENTH LIST.

Carried Forward ... .. £715 6s. 9d.

	s.	d.
Lieut. Colonel W. E. Roe ... ..	20	0
Mrs. Muirhead Tanner ... ..	10	0
H. C. Holmes ... ..	5	0
Mrs. O. Clayton ... ..	2	6
Miss L. M. Dale ... ..	5	0
G. D. White ... ..	5	0
M. M. Baird, B.Sc. ... ..	3	0
Allen Fielden ... ..	5	0
Tom Weller ... ..	2	6
T. L. Callender ... ..	2	6
W. Collins ... ..	2	6
W. F. Pullen ... ..	2	6
R. O. Ridley ... ..	20	0
P. Wild ... ..	6	0
Lieut. Col. H. A. Sullivan ... ..	2	6
Mrs. Dundas ... ..	5	0
W. H. Warburton ... ..	5	0
Major Kenneth E. Paget ... ..	40	0
"Overseas" ... ..	20	0
Vyvyan Petter ... ..	5	0
P. Brick ... ..	2	1
F. Pearce Whiting ... ..	5	0
F. G. Bealing ... ..	5	0
Mrs. Jas. D. Hay ... ..	2	6
F. G. Newman ... ..	2	0
"A Subscriber" ... ..	2	6
T. W. Stannett ... ..	10	0
E. F. Mieville ... ..	10	0
A. Ambrose ... ..	5	0
R. F. Stratton ... ..	5	0
C. E. Northcott ... ..	10	0
E. Spruzen ... ..	10	0
S. R. Phillips ... ..	7	6
Chas. A. Thorneycroft ... ..	12	4
R. Schofield ... ..	5	0
Mrs. M. C. McDowell ... ..	10	0
F. J. Warwick ... ..	10	0
Mrs. Thomson ... ..	2	0
F. T. Dean ... ..	3	0
J. W. Riding ... ..	5	0
H. S. Corlett ... ..	2	4
E. Driver ... ..	2	6
J. E. Ruthven ... ..	2	6
J. B. G. Dyson ... ..	4	10

Total ... .. £780 11 10



## ESSENTIALS IN POULTRY HOUSE CONSTRUCTION.

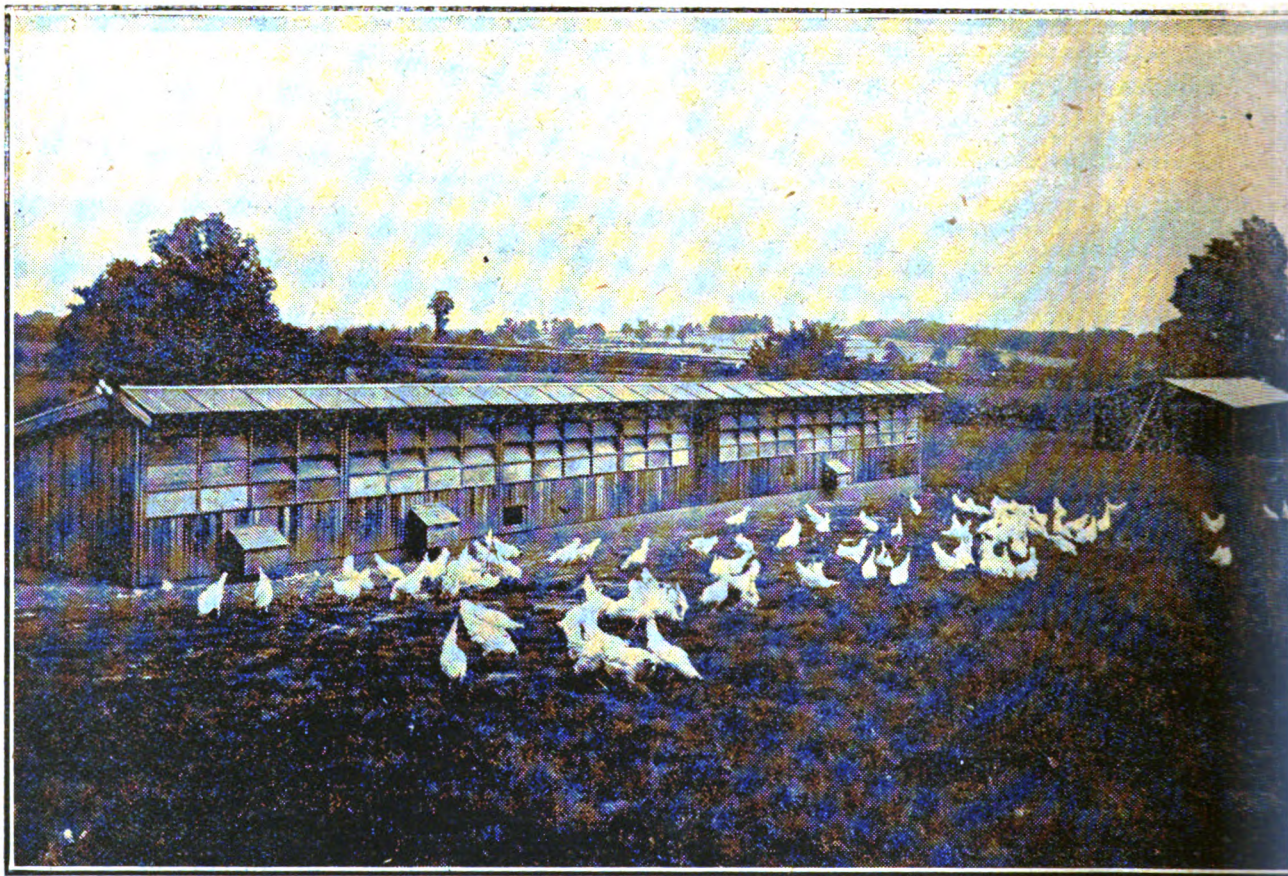
VALUABLE LECTURE by MAJOR EDEN.

Well-known in the poultry world as a practical breeder, the originator of the Eden strain of Light Sussex, and now on the staff of the Ministry of Agriculture, in which capacity he is constantly inspecting poultry houses and appliances throughout the land, Major Eden knows possibly more than anyone else in the country what are the essentials in poultry house construction, so said Mr. E. Bostock Smith when presiding at the lecture given last Friday at "Heaslands," Hayward's Heath.

The lean-to type of house, such as is to be found "Heaslands," makes a splendid building, also three-quarter span building which provides a desirable slope to the roof; with plenty of head room in front fairly high at the back. The hood projection in poultry houses should be extended to reach level to top of the window, so as to prevent driving rain blowing in.

**Ventilation.** Ventilation must be arranged with draughts, and this applies particularly to broiler houses. Ground draughts from doors can be avoided by placing over the ordinary door a box arrangement with a door at the two sides, so that the one on the ward can be opened.

**How to fix Felting.** In putting on felt very good results have been obtained by placing it in a



KENILWORTH POULTRY FARM. ONE OF THE LAYING HOUSES.

Major Eden explained that his remarks must not be taken too much as an official view, but as facts he had been able to gather in travelling about the country. He said it is a mistake to put too much money into houses, and it is far better to get good foundation stock and house them as cheaply as one can with home-made houses. Felt houses stand very well indeed, but it is advisable to make good framework, so that if necessary the felt may be replaced later on with wood. In many poultry houses the hood is not deep enough to keep the glass front in the shade, and wherever the sun shines on glass in the summer, the house is sure to be hot.

parallel to the sides of the house, overlapping the about two inches, and pasting the overlap together with mastic solution, which forms a solid joint, and wind cannot possibly get underneath and rip it off.

**Capacity.** Four square feet per bird is quoted as a proper floor space for a poultry house, and this is a very good dimension for large houses, but for small houses one should really allow more space. Of course breed comes into the question, and heavy breeds require more room than Leghorns, for instance should not stick to any hard and fast rule, but use a little judgment.

**Internal Fittings.** There is the question of the pit system or dropping board. The pit system is labour-saving, and the birds are well away from the droppings, but it takes up so much floor space, and also prevents light getting low down, which is really where it is most needed. With a dropping board kept well up off the ground, but not too high, it is possible to put a window at the back.

The great aim should be to keep the floor space as free as possible, and not have a lot of fittings, legs of coppers, etc., occupying it, as every piece should be given up for scratching.

**Flooring.** The floors must be dry, whatever happens, so that the litter may be kept dry. The lecturer said he was inclined to favour wooden floors, but they must be kept well up off the ground, or they become harbours for rats. There are many things against the bare earth as a floor; the birds will dig holes, and the litter gets buried, which is a big disadvantage.

A floor made of gravel, rolled hard and tarred, is very good. Cement floors draw the damp, and are likely to crack unless laid properly.

**Economy in Starting.** In answer to a question on Felt Houses, Major Eden advised that these should be designed so as to avoid waste in felt, remembering that this material is made in rolls 3ft. wide. It is one of the cheapest ways of making a start. A house measuring 15ft. by 12ft., 8ft. 6in. high at span, 5ft. at back, and 5ft. 6in. in front has been erected at a cost of about £15, exclusive of labour, and this had a cement floor, which took about £5.

**Brooders.** The usual portable brooder is the 100-lb. size, which usually will only accommodate fifty chickens. There are several good patterns at "Heage and Major Eden. Then there are the small brooders with portable hovers, which can be removed and brought on until ready for the bigger brooder.

On a larger scale there are two main systems—the one with the anthracite stove, such as Mr. Heage's, and the pipe system. The pipe system is used largely in Hampshire, and its chief advantage is that there is one fire only to attend to, and a saving in labour. The chickens are in one compartment, of, say, 120 to 150. The system necessitates a large run, and the chickens from subsequent broods must be placed into the same compartment. In poultry work the personal element comes in, and one man will make a success of it, another with identical appliances will fail.

**THE INFLUENCE OF THE RATION FED TO GROWING CHICKENS ON THE LATER EGG PRODUCTION OF THE FEMALES.**

By HORACE ATWOOD.

**PRELIMINARY REPORT.**

West Virginia Agricultural Experiment Station, Morgantown, W. Va.  
By courtesy of the Editor of "Poultry Science."

When chickens are raised by artificial means the conditions surrounding their early growth and

development are frequently far from ideal. During the period of incubation the temperature may become too high or too low, or possibly not enough fresh air may be supplied during the latter part of the hatch when the need is greatest. After the chicks are placed in the brooder their anatomically poorly protected lungs may not be kept warm enough at night and many of them may be injured or may die through inflammation of this organ. Or the feed which they receive during the growing period may be too scanty in amount or its composition may be unsuitable for their requirements.

To what extent, if at all, do any or all of these or other related factors affect the future productivity of the females? This question opens a vast field for experimental inquiry, for if it should be shown that a certain method of handling the growing stock affects favourably or unfavourably the fecundity of the females, or the vigor of their progeny then it would be necessary through repeated trials to determine the best method for handling the growing chickens so that their future fecundity would be at a maximum and their offspring most vigorous. The influence of early environment including the food supply upon the latter fecundity of the females and the vigor of their offspring is a fundamental problem of the poultry industry because it is possible that improved breeding and improved methods of feeding and handling the mature stock may not bring about the greatest possible benefits unless accompanied by proper methods of raising the chicks.

The solution of the problem is complicated by the forces of heredity which may cause one female to be an extra good layer and another to be a poor layer. In this experiment the production of sisters only is compared.

The work described in this paper has been carried out to determine whether the ration fed to growing chicks affects (1) either the number or weight of the eggs laid by the females after they have arrived at sexual maturity; (2) the effect of the ration on the mature live weight of the females; and (3) the effect upon the age of the females when the first egg is laid.

The general plan of the experiment was as follows: Pedigreed chickens hatched in the same incubator, August 14th, 1920, were divided into two lots similar in respect to parentage. Both lots were fed the same basic grain ration. In addition to this ration one lot received a liberal supply of skimmed milk while the other lot was fed but little milk. The cockerels were removed at broiler age and somewhat later all pullets were removed except where there were sisters in each lot. As soon as the first egg was laid the two lots of sisters which had been fed the two contrasted rations were placed together in one flock, and a trap-nest record was kept of their egg production and the weight of the eggs laid. When the chickens were small each lot was weighed weekly. Later, after the pullets began to lay each pullet was weighed monthly.

**GREATER GRAIN CONSUMPTION IN LOT A.**

Although each lot of chickens was fed equally as liberally in respect to their grain ration yet lot A which received the liberal supply of milk consumed more grain than lot B. Data shows that on the 7th



week and extending down to the 15th week lot A consumed practically twice as much grain per bird per week as in the case of lot B. At that time on account of the cold weather it seemed necessary to feed lot B more milk and a small amount of meat scrap, so during the last seven or eight weeks the difference in the amount of grain consumed is less marked. Both lots were provided with cabbage or sprouted oats as succulence.

TABLE I.

Age in days when First Egg was Laid.					
Lot A Milk.			Lot B Little Milk.		
Band of Dam.	Number of Daughter.	Age First Egg.	Band of Daughter.	Number of Daughter.	Age First Egg.
Y 9729	311	185	314	196	
Y 9779	317	183	310	218	
			344	202	
66	308	200	338	190	
	313	182			
	322	189			
104	330	176	303	194	
138	327	190	341	199	
	351	188	337	183	
			339	198	
Y 9731	356	179	304	176	
Y 9791	349	161	346	210	
			321	193	
45	333	174	312	219	
			350	211	
46	328	193	343	191	
	307	177			
12	311	175	305	180	
	309	160	316	178	
			323	184	
			306	194	
22	325	176	319	198	
49	324	178	329	208	
	320	171			
	342	182			
10	332	172	353	219	
	355	184	352	196	
			333	198	
28	336	169	354	207	
	331	176			
7	302	185	348	221	
19	326	168	334	271	
	315	183	345	197	
37	347	177	340	207	

## RATE OF GAIN IN WEIGHT.

Lot A grew so much faster than lot B, that on the 7th week the chickens fed the milk ration averaged

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

twice as heavy as the others. On the thirteen week they were almost three times as heavy, although the difference later was not so marked, it continued to the end.

## AGE WHEN FIRST EGG WAS LAID.

The first egg laid by any of the pullets was laid January 21st, 1921, and the birds were transferred to their permanent laying quarters on the following day. Thereafter both lots of pullets ran together in the flock under practically free range conditions.

Table I. shows the band numbers of the dams and the band numbers of their daughters in each lot together with the age in days of each daughter when the first egg was laid.

In calculating the average age of laying the first egg the average of the "average daughter" was taken. For example, dam 66 had three daughters in lot A, namely 308, 313, and 322, and the average age of these three daughters or the age of the average daughter of dam 66 lot A was 190.33 days.

Averaging the mean age in days of the daughters which were fed in the two different ways it is found that the pullets in lot A were 178.3 days old when they began to lay, while in the other lot they were 198.1 days old, a difference in favour of the well fed lot of 20 days in earliness of production.

(To be Continued next week).

## LIGHT SUSSEX

True Dual Purpose Birds from the Strain which led all breeds for the five winter months in the Northern Laying Competition, and led in Section 4 in the National Laying Test to the end of February.

**WELL-GROWN PEDIGREE PULLETS AND COCKERELS FOR SALE.**

Apply Poultry Manager—

**M. W. SLADE,**  
Mallard's Court, Stokenchurch,  
HIGH WYCOMBE, BUCKS.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
BOUGHTON via NORWICH.

Rev. F. KENNEN, S.P.B.A.,  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from  
Sire's Dam, 256 eggs in  
pullet year.  
Pullets No. 50, winner of Special and 1st  
Prize, Sept. 9th, 1922. Pen No. 1, headed  
by Male from 250-240s. hen (Latham). Pen  
No. 2, later hatched, but with special for-  
ward male. Orders now taken for Sittings,  
Early Olds, and Early Pullets and Cockerels.  
Prices and Records given on application.

Miss HARDMAN,  
Member, S.P.B.A. and N.U.P.S.,  
TENT, DUNFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

F. A. HULME.  
Heathfield Commercial Egg Farms  
HEATHFIELD, SUSSEX.

WHITE LEGHORNS.  
Breeding Hens, Cockerels.  
Hatching Eggs in Season.

P. N. SHELLEY S.P.B.A. and  
N.U.P.S.

Breeder of Utility Trap-nested  
RHODE ISLAND REDS

1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

QUAKER BROOK POULTRY FARM,

WHITE LEGHORNS  
WHITE WYANDOTTES

BOUGHTON nr. PRESTON

ONE OF THESE SPACES  
COSTS:  
18 weeks, 5s. 6d. per insertion  
26 " 5s. 0d. " "  
52 " 4s. 6d. " "  
(Not less than 18 accepted).

#### WHITE WYANDOTTES.

L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.

Speciality:  
STAMINA AND SIZE OF EGGS.

#### G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.  
WHITE LEGHORNS.  
LIGHT SUSSEX.

Pullets, from 10/-, according to age.  
Inspection Invited.

MILL VIEW POULTRY FARM,  
TENTERDEN, KENT.  
Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE,  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

Coaley Poultry Farm,  
GLOUCESTERSHIRE. Est. 1894.

White Wyandottes. Buff Orpingtons.  
White Leghorns. Light Sussex.  
Rhode Island Reds. Black Leghorns.  
Breeding Pens. Pullets. Cockerels.

COALEY FAWN DUCKS (1st at Bentley  
for Six Months).

#### HOLMES and HOLMES,

S.P.B.A., N.U.P.S., L.B.P.S.,

T.A. FOXDELL, CHALFONT, ST. PETER'S.  
Breeder of High-Class Pedigree Stock.

White Wyandottes, White Leghorns,  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
LODGE FARM, CHALFONT, ST. PETER'S,  
BERKS.

Telephone: Chalfont St. Giles 54.

#### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I. Reds (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

#### E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S. and N.U.P.S.,  
Breeder of the Highest Class Pedigree  
Utility Poultry,  
"HEASELANDS," HAYWARDS HEATH, SUSSEX.

White Leghorns, Light Sussex,  
White Wyandottes, Mandels, Black,  
Rhode Island Reds, S.C. Black Leghorns.

WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

A. F. C. HOLDAWAY.

R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.C.,  
Pinchurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

### K. E. FIELD-HART

WHITE LEGHORNS  
Breeding Hens for Sale in Sept.

THE LIMBERLOST,  
HEATHFIELD, SUSSEX.

Mrs. HARRY KENT,

Stanbridge Grange, Staplefield, Sussex.  
Station: Hayward's Heath.  
Telephone: 23 Handcross.

Exhibition and Pure-bred Trap-Nested  
Utility Poultry.

LIGHT SUSSEX.  
WHITE LEGHORNS.  
BLACK LEGHORNS.  
Speciality.—Three Months' Old Pullets from  
15s.  
Illustrated Catalogue Post Free.

MISS ARGLES, N.U.P.S., B.C.  
Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years in  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.  
From 10/-, according to age and pen.

ANSTEY POULTRY FARM,  
ALTON, HANTS.

Rev. G. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of L2 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.  
10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."



## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 12 insertions or more a receipt is forwarded.

### SERIAL RATES.

Insertions for the price of			
6	"	"	4
9	"	"	6
12	"	"	8

### FOR SALE. PULLETS.

100 R.I. REDS, April hatched; 15s. each. Also 80 WHITE LEGHORNS, end April and early May hatched; from hens with trap-nest records of 194 to 258; 18s. 6d. each. Limited number extra special, and fit for entry, with Laying Tests; 25s. 6d. each; all splendid stock.—C. D. Cheesbrough, Carlton, Nottingham.

### PEDIGREE UTILITY PULLETS, 1922.

50 R.I.E. and WHITE LEGHORN Pullets, four months old, sired by Golden's special stock birds; sisters averaged 98 in four winter months; unlimited grass range; 10s. 6d.; selected, 12s. 6d. Cash with approval, or deposit with Editor.—T. F. Wildman, M.S.P.B.A., Newbold Verdon, Leicestershire.

BUFF ORPINGTON, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

### WHITE WYANDOTTE PULLETS.

March hatched, from L2 dams; sires from Tom Barron's pen 8; 15s. each. A few April hatched at 12s. 6d. Also some 1921 Hens, all splendid layers; 10s. 6d. each. Overstocked, must sell. Reduction on more than six.—Miss Hardman, Dunsfold, near Godalming.

Twelve LIGHT SUSSEX, March and February, 1922; well-grown and healthy (Rothschild's); 20s. each; £11 the pen.—The Dales Poultry Farm, Syston, Leics.

Six WHITE WYANDOTTE Pullets, April hatched; Metcalfe's strain; from £2, trap-nested hens; room wanted; 10s. each; approval.—Miss Walker, S.P.B.A., Hayton House, Carlisle.

S.c. R.I. RED Pullets, from my Registered Pen hatched April 3rd; 10s. 6d. each.—Marchant, Anmer, King's Lynn.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 6d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; One Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach Mr. F. J. CHURCHYARD, 91, Farncombe Road, London, S.E.16 by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers asked to make full use of same. When remitting direct to Editor on deposit the amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

### SIX MONTHS' PULLETS.

LIGHT SUSSEX (Mullock), point of laying; daughters of winner, 2nd prize, Llangollen; £1 each, carriage paid.—"Brookwood" Egg Farm, Pontfadog, Denbighshire.

WHITE WYANDOTTES, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlishaw, Oak Lodge, Loudwater, Bucks.

Magnificent 1922 LIGHT SUSSEX Pullets, from L2 hens, by 267-egg sire, from 12s. 6d. each.—Douglas Ann, Old Thatch, Hellingly.

Pullets, 1922, thousand head, R.I.E.'s and LEGHORNS.—Stamp, full particulars, Longley, Ashwell, Herts.

For Best Value in Pullets, see our advt. page one of this issue. — Cray Poultry Farm, Ltd., Sidcup.

Ten WHITE WYANDOTTE Pullets, February hatched; Cam, P. L. Johnson; from L2 birds; £1 each. Deposit.—Locke, The Priory, Frensham, Surrey. Deposit.

150 WHITE LEGHORN Pullets, 1922; sires from Priest and Shaw; April hatched; 15s. each; May, 12s. 6d. each; inspection invited. Approval. Deposit with Editor. — A. Cowlishaw, Oak Lodge, Loudwater, Bucks.

WHITE WYANDOTTE, March hatched, 1922 Pullets; Cam-Barron-Bradley strain; 15s. each. Guaranteed good, healthy birds.—Mathews, M.P.C., M.S.P.B.A., Pine Cottage, St. Ives, Ringwood, Hants.

Cook's 270-egg (s.c.) R.I.E.; Cam's 290-egg WHITE WYANDOTTES, 1922 Pullets, 10s. 6d.; guaranteed good healthy birds.—Simmins, M.P.C., M.S.P.C., Heathfield, Sussex.

### HENS.

WHITE WYANDOTTE Hens, 100; Cam, Barron, and Latham strains; March, 1921, hatched; 6s. each, carriage paid. Approval.—W. F. Morris, Brook End Farm, Abberley, Worcester.

### WHITE LEGHORNS (BARRON'S). BLACK LEGHORNS (UPJOHN-BIRKETT).

All records above 130 for nine months. Selected birds only. 15s. and 17s. 6d. each. Make excellent breeding stock. A few Hens, each breed 7s. 6d. each. Any sent for approval.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

Eight WHITE LEGHORNS (April, 1922) from Barron (282 egg and Cockerel) 3/4. One (1921); eggs laid up-to-date, 2,688, 7s. each, or the lot, £2 5s.—Ayrton, 52, Regent Park Road, N.W.1.

### COCKS AND COCKERELS.

Cockerels. WHITE WYANDOTTE, WHITE LEGHORNS, February and March hatched; 12s. 6d., 15s. Pedigrees on application. Harries, Moneysland Poultry Farm, Croydon.

Stock Cockerels. Pure WHITE LEGHORN (Padman), March; 12s. 6d.; April, 10s. 6d. Francis, 102, Druvagan Road, Ebbw Vale, S.E.9.

### Dr. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, February and March hatched, bred from pair of tested parents and pens headed by cockerels, bred from proved L2 birds; 21s. each, carriage paid; September and October. Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

BLACK LEGHORN Cockerels, March hatched; Margerison's special pen direct pedigree given; enquiries solicited.—J. Williams, M.S.P.B.A., 82a, Cox Green, Deeside, Bolton, Lancs.

RHODE ISLAND Red March Cockerels, descendants of "Ruby Queen," and 1st medal winners; 17s. 6d. each. Barron WHITE LEGHORN April Cockerels; 10s. 6d. each.—Tompkins, Hutton Rudby, York.

September 27th, 1922.

## EGGS.

free GOLDEN WYANDOTTES (Hiller's) (in). £1 each.—Joan Brand, The Hoo, Wym, Herts.

ROAD LANGSHAN Cockerels; Ridley Hens, from trap-nested stock; January hatched; from 21s. Few January-February WHITE LEGHORN Cockerels, Padman, from 6d.—Clarke Hughes, Westbere, Canterbury.

Cockerels. Have you considered my recent advertisements offering WHITE LEGHORNS, WYANDOTTES and B.I.R.? These are rapidly going, so apply early if want Pedigree Birds.—Wheeler, "Hootenay," Great Sutton, Cheshire.

LIGHT SUSSEX Cockerel (Davidson), dam's record 264, £3 3s. BLACK LEGHORN Cockerel (Burn-Murdoch), dam's record 241; 1s. Carriage paid.—Mrs. Coldwell, Springrove, Milverton, Somerset.

LIGHT SUSSEX, WHITE WYANDOTTES, April hatched; 10s. 6d. Also AUSTRALORPES, May hatched; 12s. 6d. Will make good stock birds.—Mrs. Rushton, Barnacre Lodge, Garstang.

A few WHITE LEGHORN Cockerels, for sale; April and May birds; dam's White Leghorns (1920), Padman strain; sire Padman Leghorn (1921), from dam of 52 winter and 243 year records. Prices from 7s. each.—R. M. Turnbull, S.P.B.A., Lower Easing, Godalming.

Cooper's 1921 WHITE WYANDOTTE Hens; Barron's 1921 WHITE LEGHORN Hens, over 100 eggs per bird; all L2 Birds; price 10s. each; 1921 cocks direct, 10s. each April hatched Pullets, from my registered pens, 5s.; May hatched, 12s. 6d. each; Cockerels, April, 7s. 6d.; May, 6s. 6d. Khaki-Campbell Drakes, Oscar Brown's, 8s. and 10s. each. Approval.—A. Hickton, S.P.B.A., Wireless Brooder Works, Mansfield Woodhouse, Notts.

### BUFF ORPINGTON COCKERELS.

1922, from L2 Hens, sired by brother of Thomas's World's Record Hen, 343-egg; 20s., 30s., 40s. each.—Wheatley, S.P.B.A., Barnwood, Gloucester.

Cockerels, BLACK MENDELS (Smart's), BLACK LEGHORNS, BUFF ORPINGTON. Write for particulars.—Button, "Annaleale," Long Eaton.

### 1st IN WYANDOTTES.

100 per cent. First Grade Eggs, Single Bird Test, Cheshire Section; cockerels related to above from 23s.-egg; heavy layers.—Captain Heseltine, Ropley.

### WHITE LEGHORN COCKERELS.

Hatched early February, from eggs supplied by Dr. Baldwin; fine healthy birds; reared on free range at 600ft.; 25s. each.—Capt. F. Pardoe, Bradley Court, Mitchell Dean.

Pedigree BROWN LEGHORNS; 17s. 6d. each, carriage paid; beautiful birds.—Huddleston McKellar, Lingfield.

### EXCHEQUER LEGHORNS.

For Sale, splendid Cockerels, from Millar's Extra Special Pen direct. No finer stock can be bought of this coming breed; 10s. 6d. each.—J. J. Sutton, Bradmore, Wolverhampton.

### SPECIAL OFFER OF PEDIGREE COCKERELS.

WHITE LEGHORN, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 223-255; winter records 79-109. Average weight of eggs, 2½-2¾s. Only a few March and April hatched left; 10s. to 15s. each, carriage paid.—Bealing, Jesmond Dene, Burgess Street, Bassett, Southampton.

Stock Cockerels, WHITE LEGHORNS, from three different S.P.B.A. registered pens; all Barron strain; 17s. 6d. and 21s. Hampers charged, but returnable. Deposit, Editor.—R. Densham, Rogers Wood, Fawkham, Kent.

R.I. RED Cockerels (Golden's direct), WHITE LEGHORNS, from prolific hens; March, April hatched; from 7s. 6d. each, carriage paid.—Tanayknowe Poultry Farm, Bothwell, Lanarkshire.

### S.P.B.A. TEST WINNERS.

Early February hatched Cockerels from above, 25s. each. Also February-March R.I.R. Cockerels, from pen consisting of grandson world's record layer and non-broody hens, with dam's records 245-286. Boucher's strain, 15s. each. Light Sussex Cockerels, March hatched, Lister-Tom Marks, 10s. 6d. each. All finest pedigree stock. Full particulars on request. Birds sent on approval, carriage paid.—D. and G. Gradon, M.S.P.B.A., Northwood P.F., Blackhill, co. Durham.

### PEDIGREE UTILITY COCKERELS.

WHITE LEGHORNS (Padman-Barron's), R.I.R.'s (Golden-Measures), WYANDOTTES (Barron's), LIGHT SUSSEX (Rothschild-Crawshay); 7s. 6d.—15s.—Roundwood P.F., Charing, Kent.

### BANTAMS.

TWELVE UTILITY Buff Pekins, 5s. each.—Cross, 12, Calais Road, Burton-on-Trent.

### BREEDING PENS.

Six Pedigree WHITE LEGHORN Hens; genuine L2 birds, with unrelated high found cockerel; from 42s.—Cray Poultry Farm, Ltd., Sidcup.

WHITE LEGHORNS. Pens, seven birds, from 25 5s.—E. G. Christie, Thornton-le-Moor, Lincoln.

Wanted, BREEDING PEN, BUFF WYANDOTTES.—Tucker, Roseville Terrace, Cross Gates, Leeds.

## APPLIANCES.

### "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

### ROOFING FELTS

"Superfelt," Ashwell, Herts.

### WIRE NETTING

Best galvanised. British only; stamp list—Superfelt, Ashwell, Herts.

### SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

### GLASS SUBSTITUTE

Samples, stamp.—Superfelt, Ashwell, Herts. Reduced.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

Wanted, offers for Latest Pattern SOOLE-STANWORTH INCUBATOR, 3,000 egg capacity; used one season; excellent hatcher, perfect condition.—Box 158, "Eggs," 94, Farncombe Street, London, S.E.16.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

30 STANDARD SIZE EGG BOXES, English make, complete with divisions; some never used; 4s. 6d. each, f.o.r., or £6 the lot.—Miss Dora Seed, River Poultry Farm, King's Lynn.

INCUBATOR (50), Hearson pattern; splendid hatcher; complete. Exchange, Blue Andalusians, or offers.—Taylor, 4, York Street, Heywood.

### INCUBATORS.

For Sale. One Hearson, 120, £11; One Gloucester, 150, fitted self-turning tray, £8; both machines fitted for gas, and new in 1920; only used for 4 hatches; in perfect condition.—A. E. Parkinson, Elmswood Farm, Ryders Road, Walton-on-Thames.

Tamlin's 100-EGG INCUBATOR, practically new; self-filling lamp; 26 10s.—Rhymes, M.S.P.B.A., Northway, Tewkesbury.

**EGG BOXES.**

24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.

**WORSAM and ABBOTT,**  
Pyrecroft House, Chertsey.

**"ELECTRO-AUTOMATE"**

Self-Generating Lamp for egg testing; no batteries; no refills required; 50s. each, post paid.—Clifford de Kuesel, 1, Stenbridge Road, Anerley, S.E.20.

**DUCKS AND DRAKES.**

Wilson's **RUNNER** Ducks and **ANCONA** Fowls, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

**FAWN and WHITE RUNNER** Duck 1922 Pullet (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

A number of **FAWN and WHITE INDIAN RUNNER** Ducks, 1922 hatched; also unrelated Drakes (Upjohn-Shaw), three to five months old; 12s. 6d. each.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

**NYE and SON** offer Pedigree **FAWN and WHITE RUNNER** Drakes, from their strain, which produced world's record layers; 408 eggs in 411 days, etc.; from 10s. 6d. each. Inspection invited.—Shoreham-by-Sea.

24 **WHITE RUNNER** Ducks, May-June hatched; 6s., 7s. 6d. each. **AYLESBURY** and **W.R.** Drakes, March-April; 10s. 6d. each.—Daintree, Wye Lodge, Ashford, Middlesex.

**BUFF ORPINGTON DRAKES.**

This year's hatch; fine birds; 15s. each.—Alan D. Pilkington, Dean Wood, Newbury.

**1st IN BUFF ORPINGTONS.**

National Laying Test, 1017 eggs in ten months; 1st, Special, County Utility Cup, Winchester; pens, Stock Birds.—Captain Heseltine, Ropley.

30 April, 1922, **WHITE RUNNER** Ducks; 10s. 6d., 21s. each, according to parents' records.—Douglas Ann, Old Thatch, Hellingly.

**IN NATIONAL DUCK LAYING TEST.**

My Pen 49, consisting of Five **WHITE RUNNER** Ducks have averaged just over

**81 EGGS EACH IN 56 DAYS.**

Ducks No. 241 laid on 116 consecutive days. Book Ducklets and Drakelets now; also Khaki-Campbell Drakelets; all at moderate prices. Duck Laying Meal, 22s. per cwt., f.o.r.—Capt. Negus, Upper Longdon Poultry Farm, Eugeley, Staffs.

Four **KHAKI-CAMPBELL** Drakes, hatched from eggs of birds from Mrs. Campbell (average 265 eggs each), 15s. each.—Barker, Aboyne, Tonbridge.

Pedigree **WHITE RUNNER** Drakes, sons of Duck No. 215, who laid 203 eggs in the 1920-21 National Laying Test; 21s. each.—Fletcher, Felstead, Essex.

**CLEARANCE SALE.**

27 **FAWN RUNNER** Ducks, Wilson strain; eight drakes, bred from Dairy Show winners; all 1921 hatched; 5s. each; 12 ducks, 1922; 7s. 6d. each. 10 **FAWN and WHITE** Ducks, two Drakes, from 306 egg ducks, £3 10s. **SPECKLED** (the new colour), 1922 Ducks and Drakes; bred from prize winners; 12s. each.—Mrs. Bainbridge, Keyneston, Blandford.

**PIGEONS.**

**UTILITY PIGEONS**, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 30s. pair; Squeakers, 5s., 7s. 6d.—Fidler, Colehill, Wimborne.

**RABBITS.**

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

Breed Rabbits for fur. I supply Pedigree Stock, and buy your felts; grand doe, mated to winning buck; 50s.; maiden doe, 30s.; youngsters, 20s. pair.—H. Bonny, M.S.P.B.A., Hillcrest, Bexley Heath.

**DOGS.**

**AIREDALE PUPPIES** from "Clithorne Lassie," Reg. No. 36469, x "Kirby Warrior," winner of 40 First and Specials. Dogs, £4; Bitches, £3.—Green, M.S.P.B.A., St. George's, Westbury, Sherborne, Dorset.

**PIGS.**

Young Pedigree Large **BLACK GILTS**; 45s. each. Eligible registration.—Douglas Ann, Old Thatch, Hellingly.

**FOODS.****OYSTER SHELL.**

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 116s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

**GRANULATED CHARCOAL.**

Guaranteed Quality, half-cwt., 12s.; one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

**SPECIAL VALUE IN POULTRY FOOD.**

**GOOD CLEAN WHEAT SCREENINGS**, 11s. per 112lbs. Guaranteed Sussex Ground Oats, 17s. per 112 lbs. Bags Free. Carriage forward.—Marland and Co., Poultry Food Millers, Mossley, Manchester.

**DERBYSHIRE LIMESTONE GRIT.**

3s. 6d. cwt.—Thornhill, Great Leam, Derbyshire.

**WHAT DO YOU PAY?**

Fineest Quality **MEAT** or **FISH** 17s. 9d. cwt., f.o.r.; 5cwt. carriage paid. Samples, stamp.—Douglas Ann, Old Thatch, Hellingly.

Special Offer for one week only, cash order:—Best Quality Yeast Meal, 10s. cwt.; Maize Gluten Feed, 10s. 6d. cwt.; Oyster Shell, 5s. 9d. cwt.; Grit, 3s. 6d. cwt.; Fine White Midds., 11s. cwt., f.o.r. Cash paid.—Prices by return post.—Parsons, Sons, Ash, Surrey.

**PLEASE NOTE**

that our Special Advertising Offer (including the donation to the N.P.I. Fund of for every ton sold) of Sussex Ground Oats has been extended until the 4th October. Prices: 19/- per cwt.; 90/-, 5 cwt.; 22s. per ton, carriage paid any N.E.R. Station 1/- per cwt. extra other lines. Quality Guaranteed pure stone ground from oats only, approved of by many of our leading poultry keepers and food experts. The big rush of orders during August caused some delay in despatch, and to those who had to wait we tender our apology. We can now, however, give immediate despatch. Mr. Newman's opinion: "A very good sample, indeed, of Sussex Ground Oats."—Joseph Hinkley, Poultry Food Specialist, Marsh Street, Middlesbrough.

**MISCELLANEOUS.**

Strong, Vigorous Early-March, 1922, **RED Boucher-Crawley** Cockerels, and **W. WYANDOTTE** (Barron-Cooper) Cockerels. All of fine type and colour, bred from high record hens. 20s. each. A few 1921 Breeding Hens, with good blood records, 10s. each.—Phillip Goodwin, "Old span," Cheadle Hulme, Cheshire.

**EDENMORE POULTRY FARM, HOOK, HANTS.**

**WHITE WYANDOTTES**, large eggs, fine birds, splendid records and stamina. 20s. Birds, all with individual records, to make room for young stock. Cockerels, by 1st of Cam's Supreme, and other first-class pedigree Stock. Table Birds, milk fed. Young Stock has been entirely free from disease from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices apply to Brig-General Macconsky, Edenmore, Hook, Hants.

For Sale, Going Concern, Well-Established **POULTRY FARM**, House, 17½ acres land, three acres lake; over 800 head laying stock. Dissolving partnership.—Box 12, "Eggs," 94, Farncombe Street, London, S.E.16.

September 27th, 1922.

## EGGS.

**P. JOERGENSE, Specialist and Largest breeder of Crows. Stock Birds, Pullets and Chicks.** — Kennylands, Emmer Green, Reading.

### WHITE ORPINGTON ONLY.

Write for prices and particulars of our trap-nested stock. — Manager, Westridge Egg Farm, Wotton-under-Edge.

## CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.

1920 and 1921 Hens for Sale, **WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS, and WHITE LEGHORNS**; 5s. to 10s. each, according to age and record. All with records from 175 to 240. Individual records supplied. Stock Cockerels of above breeds. Prices on application.

**BUFF ORPINGTON, 1921 Hens**; 8s.; mostly laying. Unrelated Cockerels; March; 12s. All entirely Cook's (Cray) strain; free range. — Miss Turner, Westbrook, Godalming.

## WHITE LEGHORNS, BARRON'S PEN 1.

We purchased from Mr. W. Barron half above pen and half his "Special Pen A." and now offer you Pullets and Cockerels from same. Prices from 15s. Pedigrees and particulars on application. — The Dales Poultry Farm, Syston, Leicestershire.

Owing to Dissolution of Partnership. Special Opportunity to obtain Prize Strain Stock. Grand Breeding Pen, Cam's White Wyandotte 1921 Cock and eight 1920 Hens, 4 guineas. Also 35 White Leghorn, trap-nested, 1921 Hens, by son of Lady Eglantine, from Tom Barron's hens; flock average to August 31st, 160; 15s. And 55 Pullets, from same pen, 15s. to 21s., or near offer. — Ellinger, Sherbrooke, New Milton, Hants.

### BUNGALOW FOR SALE.

For Sale, delightful Bungalow, in lovely Hampshire; nine acres; poultry houses, etc., for 500 birds; 2min. station. — Box 161, "Eggs," 94, Farncombe Street, London, S.E.16.

**PULLETS, May hatched, White, Brown, Black Leghorns, White Wyandottes, Buff Rocks, 12s. 6d. each; April, cross-breeds, 8s. 6d. DUCKS, Orpingtons, Aylesburys, Runners, April hatched; some laying; 12s. 6d. DRAKES, 10s. 6d.—Mrs. Wilson, M.S.P.B.A., Minorea Farm, Denholme, Bradford.**

**RHODE COCKERELS (February)**, by son of Boucher's World's Champion Hen (1,045 eggs in four years, never broody), from lams with records up to 278; price 42s. **WYANDOTTE COCKERELS (Cam's)**, by son of College Queen (301 eggs), from lams with 257 year average; price 30s. 40 **BLACK LEGHORN (Carr) 1921 Pullets**, present records up to 236; price 20s. each, on arrangement the lot.—Apply, Sturgeon, Nackington, Canterbury.

## THEY MUST GO.

The following birds remain of my surplus stock sale, and must go at tempting prices:—15 1921 White Leghorns, Padman and Joe Edmondson, flock average 184; price, 8s. each; 10 1920 White Leghorns, actual daughters Pen 53, Silver Medal Winners, Harper-Adams' 1916-17, pure Padmans, price 6s. each. Few March-April White Leghorn Pullets, 25s. each; May, 21s. each. All carriage paid. Approval.

### JACK UNDERWOOD, S.P.B.A.

Reliable Poultry Farm, Sutton Bonington, Loughborough.

## PUPILS.

The **ELTY POULTRY FARMING SCHOOL, Flax-Bourton, Som.** Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outskirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

**LADY PUPILS.**—There will be Vacancies for a few Resident Lady Pupils on Poultry Farm in North Devon in October. A new plant is to be erected on up-to-date lines this winter, which will offer special experience. — For particulars, apply to Shepherd, Rhualt, St. Asaph, North Wales.

**PUPIL taken.** Practical instruction on Lady's Model Poultry Farm (small); fee 10s. 6d. per week; live out.—Box 166, "Eggs," 94, Farncombe Street, London, S.E.16.

**LADY PUPIL Wanted**, for up-to-date Farm. All branches taught; tuition for services rendered. — Tansyknowe Poultry Farm, Bothwell, Lanarkshire.

## WANTED.

### PULLETS.

Wanted, R.I.R. or **WHITE LEGHORN** Pullets, 1922; exchange good Donkey.—Lady Kenyon, Cliff House, Atherstone, Warwickshire.

## MISCELLANEOUS.

### COMMERCIAL POULTRY FARM.

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Finest investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, 15 **UTILITY (no Show) LIGHT SUSSEX Hens, 1921, 150/180 24oz. egg pedigree**, with two Unrelated February-March 1922 Cockerels of equal strain; fair in colour, size and type; f.o.r. Hook of Holland by G.E.R.—B. Verhoeven, "Ravenburg," Linne L. Holland, M.S.P.B.A.

## SITUATIONS WANTED.

**MANAGERESS** Desires Re-Engagement on Poultry Farm; trained diploma; five years' practical experience.—Box 163, "Eggs," 94, Farncombe Street, London, S.E.16.

**PRACTICAL MANAGER**, pedigree utility poultry farm, age 30; three years' practical scientific experience; also disease inoculation. Require cottage; modern conveniences; wife, two children.—Box 155, "Eggs," 94, Farncombe Street, London, S.E.16.

**Mrs. PIERCE-GROVE, M.N.U.P.S., S.P.B.A.**, strongly Recommends Young Lady as Assistant on small up-to-date poultry farm, to work in exchange for board and lodging.—Apply, Minett, Lemon House, Holway Hill, Taunton.

Wanted, by **GENTLEMAN**, experienced in all branches of poultry, Post in Egg Room of large Commercial Farm, or capable of taking entire charge of poultry.—Box 165, "Eggs," 94, Farncombe Street, London, S.E.16.

## SITUATIONS VACANT.

For Small Chicken Farm, Strong Help; Bungalow; fair cooking; two in family; state salary.—Box 162, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, **MANAGER**, with £500 capital, to take share in Established Poultry Farm, one hour journey, London.—Write, fully giving experience, to Box XXX, "Eggs," 94, Farncombe Street, London, S.E.16.

## PARTNERSHIP.

**PARTNER Wanted**, Lady or Gentleman, thoroughly experienced and with small capital available, can be taken into partnership in small poultry farm; very favourably situated, and capable of great development. Accommodation in owner's comfortable country house can be arranged.—Box 164, "Eggs," 94, Farncombe Street, London, S.E.16.

## Passing it on.

You tell your friends you have something to sell and they tell others. Thus sales are sometimes made.

But think of the number of persons an advertisement in "Eggs" will tell of your desire to sell something which they desire to buy. The result is positive.



"EGGS"  
CLASSIFIED  
ADVERTISING  
COLUMNS  
TELL ALL.



## "GUARANTEED" AUTOMATIC WATER FOUNTAIN.

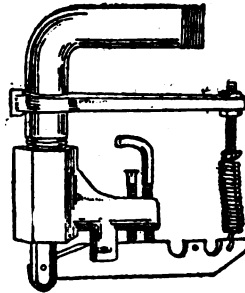
**Your Water Troubles Are All Over.**

All the established and best features known to science are built for you in this fountain. It serves your chickens with an abundance of fresh clean water at all times. It fills your pans or crocks just as full as you want them, and no more.

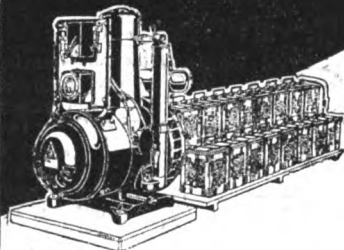
There are many kinds and sizes of water pans or troughs you can use, in fact any kind will work perfectly with the "Guaranteed."

**Price each—8/6 Post Free.**

**D. FREELAND, Craigavad, Co. Down.**



*Let Artificial Lighting in the Pen  
increase the laying power of your hens*

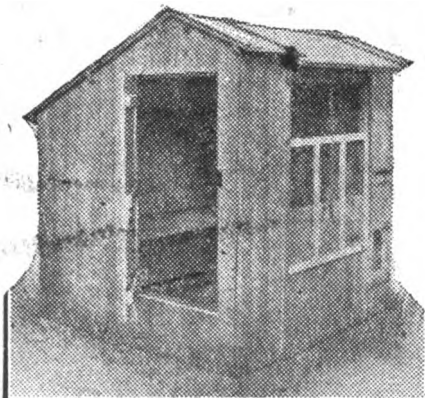


Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office:—75, Victoria Street, Westminster, S.W.1.

### The 'QUENIBOROUGH'



A most Useful Poultry House, well and substantially built. Complete. No Extras.

8ft. x 8ft. x 8ft. 6in., £4/17/6. Floor 19/6  
10ft. x 8ft. x 8ft., £7/0/0. Floor 21/-

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT A., QUENIBOROUGH, Lincs.

### GOOD REASONS WHY YOU SHOULD SUBSCRIBE TO "EGGS."

1. It is published not for financial gain, but solely in the interests of the Poultry Industry.
2. The Council of the S.P.B.A. only desire to meet working expenses. They have no shareholders clamouring for dividends to face.

Come then and share their knowledge.

Help us to help you.

## CONTINUOUS ADVERTISING PAYS.

¶ The week you do Advertise may be OPPORTUNITY missed.

¶ Thousands of enterprising poultry-keepers carefully read "EGGS" each week.

¶ If they do not see your announcement, their orders will go to the other fellow.

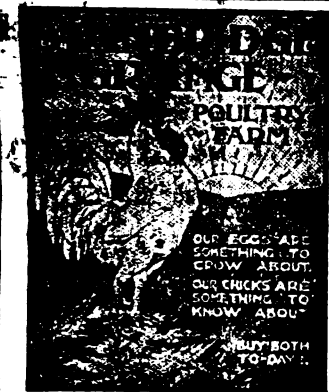
¶ If you are in doubt whether an advertisement in "EGGS" will help you, drop a postcard to The Advertising Manager, who will gladly call and discuss your difficulties.

¶ And remember "EGGS" is read for the scientific information and sound practical knowledge it contains each week. It delivers "The Goods."

## "EGGS"

Official Organ of The Scientific  
Poultry Breeders' Association.

**94, Farncombe Street  
London, S.E.16.**



**Exhibition and Pure-Bred Utility Birds.**

**LIGHT SUSSEX.**—1st and Sp., Lewes. 1st and Sp., Redhill. 1st and Sp., Tunbridge Wells. 2nd Utility, Crystal Palace, etc.  
**WHITE LEGHORNS.**—1st Redhill. 1st, Uckfield. 1st, Sussex Agricultural, etc.  
**BLACK LEGHORNS.**—1st and Sp., Lewes. 1st Royal Counties. 1st, Royal. 1st, Tunbridge Wells, etc., etc.  
**TOULOUSE GEESE, AYLESBURY DUCKS.**  
**COOKERELS:** 21/- to £3 3s. 6d.  
**PULLETS:** 17/6 to £2 2s. 6d.  
All Birds sent on Four Days' Approval.  
All Birds Trap-nested. Only 12 Birds bred from.  
Please note Change of Address, and when in our neighbourhood do not fail to visit our new 110 ACRE MODEL FARM. Write to-day for Free Illustrated Price List to

**MRS. HARRY KENT,**  
**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**  
Station: PEVENSEY or BEXHILL.

**S. & J. PARSONS,**  
**The Poultry Farm, Musbury**  
**DEVON.**

Breeders of the Highest Class Utility White Wyandottes and White Leghorns and consistent Winners in the various laying competitions. Specialist Breeders of High Pedigree Cockerels.

Prices of Extra Special Cockerels, bred from high record hens, and excelling in type and purity of colour. Three to Five Guineas each.

Other Excellent Birds, bred from individual hens at

**25/- EACH UPWARDS.**

Further Particulars on Application.

**The Misses Ransford.**

**WHITE LEGHORN STUD FARM.**

All Stock Trap-nested and kept on Free Range.

1922 List of Cockerels bred from Individual High Record Hens now ready. Splendid Quality offered.

**PERSEVERANCE POULTRY FARM,**  
**PENSFORD, BRISTOL.**

**MOORSWOOD**  
**POULTRY FARM,**

**HERONS GHYLL, UCKFIELD, SUSSEX**

Proprietors: Mrs. James Hope & Miss A. Howard  
Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

**PULLETS from £1. COCKERELS from £1 1s.**  
A Limited Number of 1921 PULLETS at 12/6.

**Darracott's Patent TRAP-NEST**  
(PATENT No. 150547).



Open. Closed.  
Used by Laying Tests and Leading Breeders Throughout the World.  
The Universal Trap-nest, Front, and the most efficient Trap-nest in existence; can be fitted to any nest; made by skilled joiners.  
Prices: 3/6 each, 3 for 10/-, 6 for 19/- 12 for 36/-  
All prices carriage paid British Isles.  
**HANDEVILLE POULTRY FARM AYLESBURY**

**"ZENITH TRAP-NEST"**

As used by the Large Poultry Keepers. Also in the Premier Laying Competitions.  
FRONTS, 3/- each, carriage paid.

**WIGNALL,**  
Station Appliance Builder,  
LONGTON, Near PRESTON.

**Here we are Again!**

**BARGAINS in POULTRY FOODS**

Best White Wheat, 16/- per cwt.; Best Clipped White Oats, 14/- cwt.; Best Poultry Mixture, 13/6 cwt.; New Round Maize, 12/- cwt.; Oyster Shell, 7/- cwt.; Grit, 5/6 cwt.; Sweet Clover Meal, 10/- cwt.; Complete Laying Meal, 12/- cwt.; Best Fish Meal, 18/- cwt.; Best Meat Meal, 18/- cwt.; Best White Dair, 12/- cwt.; No. 2 Fowl Corn, 12/6 cwt.; Middlings, 11/6 cwt.; Bran, 9/6 cwt.; Green Bone, Best Egg Producer, 15/- cwt. Prompt Despatch. F.O.B.

MARCH 1922 PULLETS, 7/-.

**G. THISTLEWAITE, Corn Miller**  
Wavertree Road, LIVERPOOL.

**BARNEVELDER PULLETS.** Also Good Breeding Pens of 20-21 Bantams. Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other Varieties. Also all kinds of Water Fowl, Fancy Pheasants, White, Black Winged Blue and Specifier Pea Fowl, Partridges, etc. Send Threepence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.

**PALMER'S PURE FISH MEAL.** As used by the Ministry of Agriculture, and also the "Daily Mail," N.U.P.S. Bentley, Harpor-Adams, and Munster Laying Competitions

Dear Sir,—I cannot claim to have used every other make of Fish Meal, but I have tried a good many, and am satisfied that your Meal possesses that something "different," placing it in an altogether higher category than other makes. Apart from its beneficial effects on the egg-return and health of the birds, it keeps so wonderfully well. I am moved to write in this vein because I have reared about a thousand R.I.R. Chickens and White Runner Ducks this year, some of which had your Fish Meal, while others did not. The former made very much better progress than the latter and can be picked out quite easily at the present time.  
(Major) E. W. GREGORY.

£16 per ton, £8 2s. 6d. per ½ ton, £4 2s. 6d. per ¼ ton.  
Carriage Forward from Hull.  
22/- per cwt., 12/- per ½ cwt., 6/9 per ¼ cwt.  
Carriage Paid England and Wales and to Ports.  
FISH GRAINS THE SAME PRICE.

**CHICK FOODS**  
**LAYING MEAL**  
**SUSSEX GROUND OATS**  
**FLINT**  
**LIMPET**  
**OYSTER and MIXED SHELL.**  
**BISCUIT MEALS**  
**WAFFER MEAL**  
**PURE TONIC SPICE**  
**COCKLE**  
**OYSTER**

Send a postcard for Samples and Literature to—  
**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY**

# Bigger and Better Pullets.

Chicks fed on FUL-O-PEP Growing Mash gain more weight per lb. of feed consumed than on any other feed, and the birds at all stages of growth are larger and heavier. Conclusive proof of this is shown in our Year Book—write for free copy.

Pullets raised on FUL-O-PEP Growing Mash, the FUL-O-PEP way, make the earliest, the longest, and the most prolific layers—because FUL-O-PEP Feeds result from years of scientific research and practical tests by the world's greatest cereal experts.

We have an Information Bureau at your service. Write to our Poultry Expert about your difficulties. He will be glad to help you.

## DRY MASH (Laying Grade)

This fine, egg-producing food is always before the birds, yet they cannot over-eat. Contains everything, including green food.



## SCRATCH GRAINS

The highest quality "scratch feed" on the market—contains corn, wheat, buckwheat, barley, sunflower seed, etc. Just right for the hens' "upkeep."

## CHICK FEED

A most carefully blended feed, comprising oatmeal, wheat, corn, etc. Given the FUL-O-PEP way, it ensures the life of almost every chick hatched.

# FUL-O-PEP

POULTRY FEEDS

QUAKER OATS, Ltd.,  
Finsbury Square, London, E.C.2.



The  
S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN,  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

"Poultry Foods and Feeding,"

ALSO

"Chicken Rearing,"

BY

TOM NEWMAN.  
Rudgwick, Sussex.

Price 6<sup>1</sup>/<sub>2</sub>d. Each,  
Post Free

Try us for your WET AND DRY MASHES.  
made to your own requirements.

We offer the following:—

	per cwt.
NEWMAN'S POULTRY MASH	15 0
MIDDS	11 0
BEAN BROAD	11 6
BEAN ORDINARY	8
MAIZE GLUTEN FEED	12 0
SUSSEX GROUND OATS	20 0
BISCUIT MEAL	22 6
GLOVER MEAL	18 0
ENGLISH CLIPPED OATS	16 6
Special Line Best MEAT MEAL	21 0

Everything for the Poultry Keeper kept in Stock.  
Bags Free and Free on Rail. Cash with Order.

DRAKARD & CO., Ltd.,  
Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

G. R. PINDER, M.S.P.B.A., N.U.P.S.,

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

ALL are Guaranteed to have L2 winter records of 45-60 large eggs, and have been bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to book a good bird bred from individual high record hen in W. Leghorns, W. Dottes, R.I. Reds and L. Sussex.

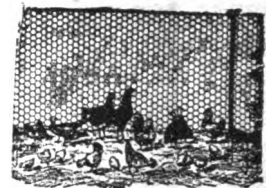
Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Lindsey Poultry Farm, Carlton, Louth, Lincs.

## BEST ENGLISH GALVANISED



Wire Netting

OF SUPERIOR  
and GUARANTEED  
TEED QUALITY

Heavily Galvanised  
Direct from the  
Made in North  
England. Greatly  
reduced Prices.  
Lots carriage  
England and  
50 yard rolls.

Our netting rolls out straight, and like a carpet. If prices are lower than ours, it is highly probable that they are Foreign and Inferior.

## Special Lines—

Prices strictly net. Sole terms—Cash on order.

mesh	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	7ft.
Wide	9/-	10/-	11/-	12/-	13/-	14/-	15/-
Wide	10/-	11/-	12/-	13/-	14/-	15/-	16/-
Wide	11/-	12/-	13/-	14/-	15/-	16/-	17/-
Wide	12/-	13/-	14/-	15/-	16/-	17/-	18/-
Wide	13/-	14/-	15/-	16/-	17/-	18/-	19/-
Wide	14/-	15/-	16/-	17/-	18/-	19/-	20/-

Sheep Netting, 3-ply Selvages, 4 in. mesh gauge, 36 inch, 15/8; ditto, with 1/2 inch strand, 17/8. Special Galvanised Netting, 3/6 per 1,000. Strong Wire Netting for holding bottom selvage to ground 1/6 per dozen. Galvanised Binding Wire, 1/6 lb. Best Wire Cutters, 2/6 pair. All other sizes, gauges, and widths in large list, free. Special low quotations for best Galvanised Barb, Fencing, Strand, and other Wires. Corrugated Galvanised Sheet and Accessories. Sanded Roofing Felt, tarring required, 15 yds. x 1 yd. roll, 1/6 per roll, carriage paid 20 rolls. W.D. Bros. Famous Show Pens of guarantee and superior quality, 27 in. x 24 in., 7/6 each ends 2/; 18 in., 5/6, extra ends 1/6. Show Pen Fronts, with sliding doors, 24 in., 2/6; 18 in., 1/2. Strong Galvanised Cups, 9d. and 1s. each. Wicks Bros. Advertising Line, the Poultry Keeper Tool Set, containing eleven tools, including hammer, 2/- per set. All carriage paid.

WICKS BROS., Wholesale Wire Netting

20, CATTLE MARKET, NORWICH.

Phone: 1438. Contractors to H.M. Government.

All prices subject to alteration without notice.

Mrs. PIERCE-GROVE, M.S.P.B.A.

N.U.P.S., STOKE COURT.

Breeder Utility White Leghorns and Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pans.

FOR SALE.

WHITE LEGHORN COCKERELS.

WHITE WYANDOTTE COCKERELS

Early February and March hatched, splendid, well-matured, and vigorous birds, from my own well-known strain 1921 mated to magnificent cockerels (priced splendid breeders), imported direct from Solly's famous egg farm in British Columbia. These cockerels guaranteed from 280 specially large eggs.

Inspection invited of my up-to-date farm, built up from T. Barron's best Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply The Earl of Eltham, Stoke Court, Stoke Mary, Taunton.

## VALUE IN WHEAT

Good, Sound English Wheat, grown on own farm. This wheat must not be confused with "Feed" Wheat; as it is suitable for milling into bread flour. 12/- Cwt. £11 10s. 6d. Ton. Free on Rail. Bags Free.

CAPT. STUART SMITH

KINOUULTON, NOTTS.

# ST ENGLISH RINGS

are NOT the Cheap Imported  
but English Made.



## SPIRALS IN TEN COLOURS.

Green, Light Blue, Violet, Dark Blue,  
Yellow, Pink, Brown, Black, White.  
F BANDS. in 10 plain colours, 5 strips.  
lumimum. any Number and Year.

### ALL ONE PRICE.

Olds	500	400	300	150	100	50	25
aths	10/-	8/-	6/-	3/-	2/-	1/3	1/8
Grown	13/9	11/-	8/3	4/3	3/-	2/-	1/3
Breeds	15/-	12/-	9/6	5/-	3/6	2/-	1/4
ies	25/-	20/-	15/6	8/3	5/9	3/3	1/9
	26/-	21/-	16/6	8/9	6/3	3/3	2/-

all Subject to 5 per cent. Discount.  
An Extra 5 per cent. to M.S.P.B.A.  
Post Free.



are not the Imported, which are  
much too flimsy.

## VERMICIDE.

most powerful Killer of Vermin and all  
asite life, a good disinfectant for  
incubators, Brooders, Houses, etc., etc.

### ONCE USED, ALWAYS USED.

Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6;  
Gallon, 8/6.

Carriage Paid.  
Less 5 per cent., S.P.B.A.

## PENETRAS.

FINEST PRESERVATIVE ON THE  
MARKET.

Got the Ordinary so-called Creosote.  
2 gals., 3/3 gal.; 5 gals., 3/- per gal.;  
40 gals. (or about), cask £2 10s. 6d.  
free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

## FENCING STAKES.

Per 12. Pointed and Penetrated.  
5ft., 6/6; 5ft., 7/3; 5ft., 8/-; 5ft., 8/6;  
6ft., 9/3; 7ft., 10/-; 7ft., 10/6.  
5 per cent., and an extra 5 per cent. to  
S.P.B.A. All Carriage Forward.

## GALV. WIRE NETTING.

	24in.	36in.	48in.	60in.	72in.
1.	17/2	24/5	32/7	41/7	48/9
2.	10/6	14/3	19/-	23/9	28/6
3.	7/11	10/11	14/6	18/2	21/9

Roll, 50 yards. Carriage paid orders £7.  
2 1/2 per cent., and an extra 2 1/2 per cent.  
S.P.B.A.

## FINE BISCUIT MEAL.

used on my own farm. Splendid Egg  
producer and doubles its bulk, 24/- cwt.  
Carriage paid.

### Reduction on ton lots.

LINT CRIT, 5/8 cwt., carriage ford.  
TER SHELL, 10/- cwt., carriage ford.  
KLE SHELL, 7/9 cwt., carriage ford.  
5 per cent. and an extra 5 per cent.  
S.P.B.A.

## TRAP-NEST FRONTS.

of the Simplest and Noiseless Traps on  
the market.  
each, post free. Six or more, 4/- each.  
Reduction on large quantities.

L. SYDENHAM HANNAFORD, M.S.P.B.A.,

Leading Maker of Good Appliances in  
this country.

Iamworthy Junction, Dorset.

# POULTRY BREEDERS

## DRIED YEAST.

### Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.39
	100.00

Nitrogen	7.26
*Including Sand	.06

## OSSIFIED YEAST.

### Analysis.

	per cent.
Moisture	6.86
Oil	12.23
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
*Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.26
† " Phosphate of Lime	18.00
" Sand and Silicious matter	0.33
Total Food Units	150

### PRICES:—

Dried Yeast, 20/- per cwt.

Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the  
S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

## 1922 PULLETS.

### MAJOR HEAPS.

The Villa, Rosehill, Market Drayton, Salop.  
Has February-March Pullets for Sale.  
L. Sussex, W. Wyandottes, 15/- to 25/-  
W. Leghorns, April, bred from his "Daily  
Express" and S.P.B.A. Winners, 15/- to 30/-  
Cockerels of above Breeds from 20/-  
1921 Hens for Breeding Pens.

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
Newbury.

Once again Offers for Disposal  
EGGS AND STOCK BIRDS from his  
PEDIGREE LAYING STOCK.  
SPLENDID SELECTION OF COCKERELS  
and 1921 HATCHED HENS.

in following breeds at 15/- each.  
If not approved in three days birds will be  
exchanged or cash refunded.

Croad Langshans, Sal. Faverolle, Houdan,  
White Wyandotte, Silver Campine, Ancona,  
Light and Speckled Sussex, R.I. Red, R.C.  
and S.C. Black, White and Brown Leghorn,  
Buff and White Orpington.

Buff and Barred Rocks and Minorcas.  
Eggs, 6/- per doz.; 45/- per 100. Guaranteed  
90 per cent. fertile.

Aylesbury, Buff Orpington and Khaki-  
Campbell Ducks, Eggs 8/- doz. Drakes, 15/-  
each.

White Runner and Fawn Runner Ducks.  
Eggs, 8/- doz. Drakes, 10/- each.  
All Goods carriage paid to any part of the  
British Isles. LIST FREE.

# Not

because WE say our  
birds are in every way  
to be commended,

# But

because customers  
and others who have  
seen our farm are so  
well satisfied, should  
you send us your  
enquiries.

## High Praise Indeed.

E. Hales, Esq. Sandown,  
West Mersea Poultry Farm. Isle of Wight.  
13th Sept., 1922.

Dear Mr. Hales,—

I enjoyed my recent visit to your  
farm exceedingly, and was quite  
pleased to note the excellent quality and  
type of the stock you are breeding.

You realise the importance I attach  
to type and stamina for egg production,  
and providing you select on the lines  
you have intimated there is no doubt  
you will possess some of the finest  
breeding pens possible.

A. PRIEST.

Newlands Poultry Farm,  
Wigmore, near Chatham.  
8th Sept., 1922.

Dear Sir,—

Received Cockerels yesterday, in  
good condition. They are splendid  
birds, and I am very pleased with them.  
I hope they will be as good as they  
look in the breeding pens.

W. PYSDEN.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 0s. 6d.  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records,  
etc., with pleasure.

**West Mersea Poultry Farm,**  
**ESSEX,**

Nr. COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.**



Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Boucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 380 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
**THE CHALET, BURGESS HILL, SUSSEX.**

## TETNITE

(TRADE MARK)  
**FISH MEAL**  
THE GREAT EGG PRODUCER.

"TETNITE FISH MEAL" is unrivalled for Egg Production and building up sturdy chickens; it is of supreme quality and can be relied upon—always.  
21/- per cwt. 13/- per ½-cwt. 7/- per ¼-cwt.  
Supplies can be obtained with special discount through the S.P.B.A., Carriage paid to any station in Great Britain.  
Cash with order. A Copy of Illustrated Feeding Pamphlet free with every order.  
**TETNEY OIL & MEAL CO., LTD.,**  
101, Leadenhall Street, London, E.C.3.

PURE SWEET STERILISED SUGAR

**RENTOX (Regd).**

1 lb. bag sent post free for 4s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.**  
BORDENLEY STREET,  
BIRMINGHAM.

## MINERAL SALTS.

A High Grade Mild Aperient, containing Valuable Iron Tonic Properties. For birds in the moult, and for generally toning up the system, it has no equal.

In Patent Air-Tight Tins.

2-lb. size, 2/6. 4-lb. size, 3/9  
Carriage Paid.

**ALBION THORPE & SONS,**  
Poultry Food Makers,  
**RYE, SUSSEX.**

## DRY MASHES.

BREEDING OR LAYING MASH.

20/- per cwt. Carriage Paid.  
18/- per ½ cwt. Carriage Paid.  
As Used on Our Own Egg Farm.

We know by experience that these are the most Profitable Mashies.  
Try some yourself, and prove the truth of this statement.

**HATFIELD & DURRANT,**  
**BOTTISHAM, CAMBS.**

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years

**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time.  
His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER,**  
**BENNY, SCOTLAND.**

## CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt.
CHAMPION MIXTURE	25/-
A.1 MIXTURE (with or without Maize)	18/-
X.B. MIXTURE	16/-
X. MIXTURE	16/-
CLIPPED OATS	12/-
OLD WHEAT	12/-
WHEAT	12/-
CHAMPION KIBBLED MAIZE	18/-
CHAMPION LAYING MEAL	21/-
CHAMPION DRY MASH	21/-

Carriage Paid, England and Wales,  
Scotland 2/- per cwt. extra.

NO DUST. NO WASTE. Mixed and Well  
Cleaned by Special Machinery.

For other Specialities see Price Lists.

Samples and Price Lists free on  
application to

**WILLIAM BRINKLER & SONS, Ltd.**  
Pigeon and Poultry Food Dept.  
(5) CLAPHAM GRANARIES, LONDON, S.W.  
Telephone: BATTERSEA 211.

## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

Apply—**JOHN MEEKINGS, W.P.F., WATFORD.**

# Honnors Poultry Foods

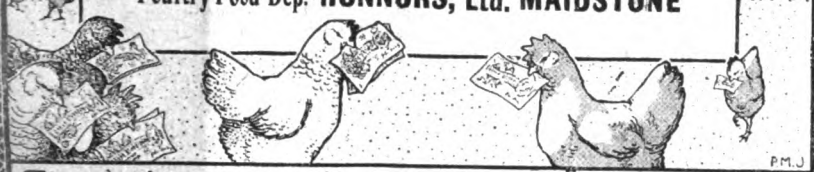
MAIDSTONE

## REDUCTIONS

In GRAIN, MEALS & FOODS

Send for List Post Free.

Poultry Food Dep. **HONNORS, Ltd. MAIDSTONE**



The ladies pay the rent. No jest  
If **HONNORS** feed them from the nest.

## POULTRY HOUSES

Before buying elsewhere, obtain the latest catalogue of my joiner-made buildings. Numerous bargains. Immediate delivery.

R. SLIMMARD, Poultry Appliance Manufacturer, Dept. N. St. Mary's Road, Oxford.

**PORTABLE BUILDINGS**

## We Know

that you are up against. We have been the Poultry Keeping Line ourselves for nearly twenty years.

HERE'S THE BEST WE CAN DO FOR YOU:—

	per cwt.
White English Wheat	12 6
White English Oats	13 0
Striped and Screened Oats	13 6
Striped Plate Maize (Screened)	12 0
Barley	10 0
Good Bran	8 0
White Middlings	13 0
Blat Mixture (from the Best Old Hard Grain)	14 0
Malty Corn	12 0
Wheat	12 0
Wheat Meal	10 6
Wheat Germ Meal	13 0
Wheat Gluten Meal	13 0
Ground Oats	18 0
Woman's Poultry Mash	14 0
Wheat Meal	13 0
Wheat Meal (Graded)	25 0
Wheat Meal (Fine)	19 0
Wheatstone Grit	3 0
Wheat Shell	5 0
Wheat Shell	7 0

Ask with Order. Bags Free. Carriage Forward.

**RANK SHEARN & Co., Ltd.**  
**MIDSOMER NORTON, SOM.**

'Phone 51.

## COCKEREL BOXES

21/6 each. Carriage Paid.

Every purchaser delighted. Send for our Catalogue giving full particulars.

**The Surrey Value Co. (Dept. 2),**  
**Redhill. 'Phone 290.**



THE GREEN-GLAZED MEAL PEOPLE.

## If you want Autumn and Winter Eggs

**Don't let your hens 'hang' in their moult.**

As soon as they have shed most of their old plumage give them our **GROWING** or **FEATHERING MASH** for a few weeks; it may easily make a month or two's difference to their starting to lay again.

May we send you our September Price List.

**THE STEYNE FOODS Co.,**  
**STEYNING, SUSSEX.**



## Mr. Stubbs on Poultry Food Prices

*Monthly Talks on Poultry Matters.*

THE conversation of Mr. Stubbs usually consists of "Wot's yours?" "Mine's another." It is only when he gets on the subject of poultry that he becomes really talkative. Mr. Stubbs has hundreds of high-class birds, and people say that when he comes home from a poultry show with only a second prize he regards himself as disgraced.

So he always pauses when he passes my garden to have a word or two about my hens.

"Making much money out of that lot? enquired Mr. Stubbs.

"Well, poultry keeping's only a hobby with me."

"If it's a hoppy I'll lay a bet it'd be cheaper to buy your eggs from the grocer. Why don't you make it a business same as me? There's no reason that lot o' yours shouldn't pay handsome."

"Well, they don't."

"That's because you don't think of the price of your poultry food. That's what runs up your costs. Give 'em Uveco Poultry Food—costs less—goes further—more eggs. That's business, paying less and getting more."

"But I give them a good mixture."

"Young feller, me lad, I don't want to hear about no mixtures. I've forgot more about poultry than most men ever knew. You want to get best value for your money in poultry food. That's Uveco Poultry Food. It's the cheapest food just reckoned by weight. It's ready cooked and quick digested. Every bit of it feeds 'em and there's no waste like when you feeds 'em raw grain."

"What's it cost, Mr. Stubbs?"

"You can get a free sample—a seven pound bag for 1/6—but if you've got a bit of sense you'll buy Uveco Poultry Food in quantity like me—my last lot was 19/- delivered at the station. It's a bit more or a bit less according to whether you're near or far from their mills. They gives you the benefit of the freight. Get the food right and you'll make them hens pay handsome. Keep 'em on your blooming mixtures and they'll just be a 'obby, and a dear one at that."

And muttering indignantly, "mixtures," Mr. Stubbs strode on his way.

**UVECO CEREALS, Ltd.**

60, Cunard Buildings, LIVERPOOL; 10, Bermondsey Wall, LONDON, S.E.16.

**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.

**E. LESLIE PATTISON,**

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the  
 very best, and entirely free from Disease.

**ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.**

250 Tested Breeding Hens, with Complete Trap-Nest Records and Pedigrees.  
 Fertility and Hatchability, 90 per cent. No Small Egg Birds.  
 1921 Birds with Records about 184 First Grade Eggs, from 10/6.

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There  
 is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).  
 Col. Hardy says:—"As regards chick rearing I have found the use of Dried  
 Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
 Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
 will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

In 200-lb. casks. Small quantities in lined bags.

*Also for fattening:—*

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

*Write for Particulars.*

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH  
 ASSOCIATION.**

**Terms:—Cash with Order.**

**Carriage Forward Heathfield or London.**

**CARR, MACDONALD & CLEVELY, LTD.,**

**BRITANNIA MILLS,  
 HEATHFIELD, SUSSEX.**

**6, BROAD STREET,  
 RATCLIFFE, LONDON, E.1.**

**NOTE THESE  
 PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in rela-  
 tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

**MEALS**

Maize Meal (fine)	11/6
Sussex Ground Oats	12/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dair, Bar-  
 ley, Oat Feed, Barley Meal, Bio-  
 cut Meal (Poultry), Service Meal  
 (fine), Cockle Shell, Flint Grit,  
 Mixed Grit, Pure Oyster Shell, in  
 K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMI-  
 CAL QUALITY FOODS** to-day.  
 Order through **Secretary,  
 S.P.B.A.,** and get your discount.

*The* **Service Food Co.**  
 VICTORIA MILLS  
 GRIMSBY

**Day by Day**  
**in every way**

**your POULTRY**

pay you better and do themselves better

IF YOU USE THE

**VENN-CARR**

**Automatic Dry Mash Hopper**  
**Automatic Scattering Corn Feed**  
**Drinking Fountains**  
**Poultry Houses, etc.**

They make poultry keeping pleasanter  
 without tying you to the home.

For the professional, as others, they  
 time, therefore save you money, enable  
 you to give more time to that very ne-  
 cessary item in successful Poultry Farming.

**DETAIL.—They cut your Feeding Cost 25**

*Write for Illustrated Catalogue, post paid*

**EVERYTHING SOLD WITH A GUARANTEE**

**VENN CARR, DEPT.**

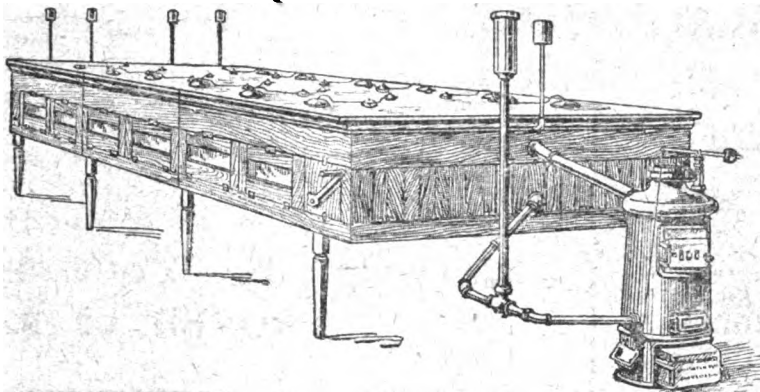
**Maidstone Poultry Farm Appliances Works**  
**Medway Street, MAIDSTONE.**

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unequalled success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the Incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

### SPECIAL LIME STONE GRIT. NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits. (Reg.).

3s. 6d. per cwt., 68s. per ton.

F.O.R. Gareton. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It.."

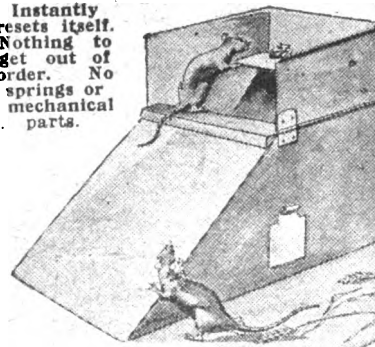
### Hastings Sheet Metal and Poultry Appliance Works, HUGHENDEN ROAD, HASTINGS.

Awarded Certificate of Merit and Highly Commended as an Improved Rat Trap at Sussex Agricultural Show.

### THE EVER-READY RAT-TRAP.

Best Trap invented. Catches Rats in a Night.

Instantly resets itself. Nothing to get out of order. No springs or mechanical parts.



No adjustments. Simple and effective. Made of strong Galvanised Iron. Patent applied for. 8490/22. Free on Rail.

Size for Rats, each 24". Ditto for Mice, 5/6. Liquid for putting on Bait, 1/- per bottle. Cash with order. Makers of all Poultry Appliances. Write for our Price List.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches. 1 doz., 1/3; 50, 3/6; 100, 6/6; 250, 15/-.

Trap-Nesting Record Books, 6/-.

Hatching Record Books, 7/6 and 11/-.

Stud Books for Poultry, 6/-.

Incubator Records, 1/3 doz.; 7/- per 100. Backyarder's Complete Record, 8d. Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKS, LEICESTER.

To obtain the Best Results  
USE

### Wyeocot' Dry Mash, Per 15/- cwt.

Prepared to the Formula as used by Capt. Frank Harrison, A.E.S.A., Wyeocot Poultry Farm, Brook, Ashford, Kent.

Free on Rail. Bags Included. Cash with Order.

We can also supply you with your Grain, Sussex Ground Oats, Oats, etc., of finest quality, at low prices.

**M. HANCOCK & SON,**  
(Dept. E),

**Mersham Mills, Ashford, Kent**

### Pedigree Utility Stock Cockerels and Pullets.

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
REDS.

Pedigree Stock Cockerels a Speciality. Bred from individually recorded L2 Hens, with high winter records. All Stock is sent Carriage paid and on full approval.

Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.).  
THE WORLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.



# "UTILITY" TRADE MARK POULTRY FOODS.

REAL BARGAINS.

Special Offers to S.P.B.A.

	per cwt.	s.	d.
1000 bags Manitoba Feed Wheat	11	0	
500 bags American Dairi Seed	10	0	
500 bags Clipped Heavy Oats	11	6	
500 bags Best Mixed Fowl Corn	12	0	
200 bags Maize Gluten Meal	12	0	
500 bags Best Quality Fish Meal	14	0	
200 bags Fine Biscuit Meal	14	0	
500 bags Best Sussex Ground Oats	15	0	
1000 bags Light Wheat	9	0	
150 bags Coarse or Fine Charcoal	14	0	
250 bags Best Quality White Wheat	13	0	
Meal	13	0	

F.O.R. Liverpool. Bags in. Cash Terms.

ARGYLE MILLS, Argyle St., LIVERPOOL.

Phone: 2585 Royal. Telegrams, "Emphatic."  
Established 1868.

## AMERICAN OYSTER SHELL

SPECIAL OFFER.

AMERICAN CRUSHED OYSTER SHELL.  
MEDIUM GRADE.Prices Free on Rail, Liverpool, on  
application.

The British American Shelgrit Co.

Bank Chambers,

282, Marsh Lane, BOOTLE, LIVERPOOL

Phone: 694 Bootle.  
Telegrams: Poultry, Liverpool.

## DR. J. H. BALEWIN

SPRINGFIELD P.F. WIMBORNE, DORSET

ONLY THE VERY FINEST STOCK

White Leghorns,

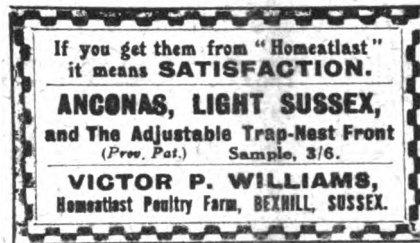
White Wyandottes,

R. I. Reds (c.)

Bred from PENS of TESTED PARENTS

and PENS headed COCKRELS bred from

PROVED L2 Birds.

Oyster Shell, English or  
American Graded - 1/-  
Kent Blue Sharp Flint - 3/4Free on Rail; Reduction 1 ton and above  
Send 3 stamps for sample.F. G. BRANTON, Grit Manufacturer  
GREENHITHE, KENT.

# Cerema MARMITE for Poultry

Sent direct to Poultry Farmers.  
In view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

## Better Birds —more Eggs

THIS preparation contains the  
important B. Vitamin so  
essential for the health of  
Birds. It may be given either in  
the form of a drink by dissolving  
in water, or the solution may  
be incorporated in the mash.  
Birds will take it eagerly. It  
increases their resistance to  
disease and assists digestion.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

Wednesday, October 4th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 14. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/6  
Six Months " " 6/4  
Three Months " " 3/3

# Exhibition & Pure Bred Utility Birds

## LIGHT SUSSEX.

1st & Sp., Lewes. 1st & Sp.,  
Redhill. 1st & Sp., Tunbridge  
Wells. 2nd Utility, Crystal  
Palace, etc.

## WHITE LEGHORNS.

1st, Redhill. 1st, Uckfield.  
1st, Sussex Agricultural, etc.



## BLACK LEGHORNS.

1st & Sp., Lewes. 1st, Royal  
Counties. 1st, Royal. 1st,  
Tunbridge Wells, etc., etc.

## TOULOUSE GEESE.

## AYLESBURY DUCKS.

Buy your Cockerels from the Stan-  
bridge Poultry Farm, and make sure  
of getting birds TRUE TO TYPE, as  
well as sons of hens with guaranteed  
egg records. ONLY L<sub>2</sub> HENS bred  
from. All birds sent on 4 days'  
approval. Prices, 25s., 35s., or  
£3 3s. PULLETS, all sold.

Orders for Eggs and Day - Old  
Chicks now being booked. Eggs from  
17s. 6d. per doz. Chicks double.

Visitors are always welcome to  
our 110-acre model farm. Station,  
Pevensey or Bexhill. Car will meet  
trains if requested.

Write for Free Illustrated Price List to—

**MRS. HARRY KENT,**  
Stanbridge Poultry Farm, Court Lodge, Hooe, Sussex.

# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



The originals of these letters have been inspected by the Editor.

## Can Any Firm wish for Better Testimony?

Letter No. 72

Greenway,  
North Curry,  
TAUNTON,  
22nd August, 1922.

Gentlemen,—

As promised in a former letter, I write to let you know what luck I have had with the day-old Leghorns you sent me in March and April last.

The first lot received on 31st March have come through without any loss. The eight pullets are A.1 birds, as hard as nails, and in splendid condition generally. The only fault I have to find with them is that one began laying on the 11th inst., and another on the 14th; very small eggs, of course, which, however, are increasing in size daily.

Both lots have been brought up on dry mash, the formula given by Mr. Newman in "Eggs" of 25th January, I think. Certainly I have never had youngsters in such conditions as these, and they are a living advertisement of the excellent conditions under which they are bred. How I wish I could come and see your farm.

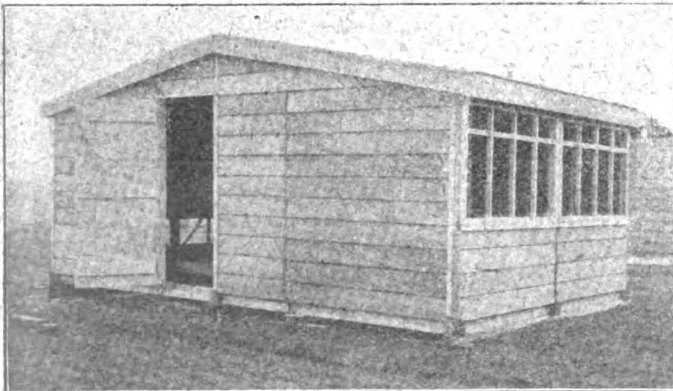
It is needless to say that I am more than satisfied with the birds I have, and thank you very much for sending them.

Yours truly,

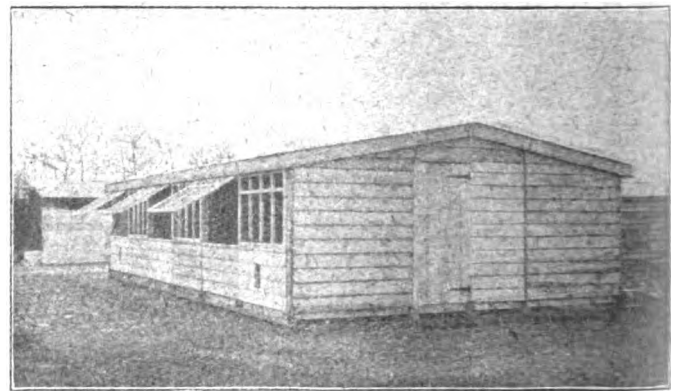
H. HALL (Colonel).

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.



TWO UNITS: 10ft. x 15ft. A.P. MODEL.



SIX UNITS: 30ft. x 15ft. A.P. MODEL.

## EXTENSIBLE UNIT BUILDINGS

Reduce Incubation, Brooding and Rearing Risks to a Minimum, owing to Perfect System of Ventilation and Lighting.

Numerous articles in "Eggs" ascribe failures in Hatching, Brooding and Rearing mainly to faulty ventilation and to inadequate lighting. EXTENSIBLE UNIT HOUSES achieve a maximum of floor lighting with entire absence of ground drafts.

The Two Illustrations show a 2-Unit House, enlarged to one of 6-Units, converted from Brooder to Laying House.

When writing for free information state your requirements fully. Diagrams free.

COMBINED INCUBATOR and Brooder Houses

Members are invited to inspect free, by appointment, a complete model plant in full operation. It comprises Incubator and Brooder, 4 Breeding Pens stocked with Bentley Strains, and Laying Houses, all of the extensible and convertible type.

# W. H. COLT, M.S.P.B.A., BETHERSDEN, KENT.

October 4th, 1922.

EGGS.

## 1922. PEDIGREE LAYING PULLETS.

On One Month's Approval.

**RHODE I. REDS**  
(Weather's) March  
and April hatched.  
Dam's records 246-  
271. Sire's Dam 201.

**WHITE WYAN-**  
**DOTTES** (Barren's).  
200-257. Sire son of  
Wilson Beattie's  
Snowball.



**WHITE LEGHORNS.** Dams 250 upwards,  
sire's dam, Gilpin's 293-egg hen.  
15/-, 21/- and 25/- each. Satisfaction  
Guaranteed.

**Dept. C. GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

**Stock Cockerels and Breeding Hens**

**Selected Strong Vigorous Cockerels.**  
Autumn Delivery.

1920 and 1921 Hens.

**All Trap-Nested and Passed the S.P.B.A.**  
Winter Egg Test.

**Pedigree, Records and Particulars, post**  
free on request.

**HADEN, S.P.B.A.**  
**WETHERBY HALL, SEDGLEY,**  
**STAFFS.**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 22lb., 3s. 6d.; 2, 5s. 6d.;  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER**  
**SUPPLY CO., LTD.,**

22, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE THE QUALITY

4in. x 4in. T.G.B.	7s. 6d.	4in. x 6in. Sawn Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
4in. x 5in. T.G.B.	11s. 6d.	4in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
1in. x 6in. T.G. do.	13s. 6d.	2in. x 1in. Battens	5s. 6d.	3in. x 6in. Battens	40s. 6d.
4in. x 6in. Sawn Bds.	7s. 6d.	2in. x 2in. Battens	8s. 6d.	4in. x 5in. Do.	8s. 6d.
		2in. x 3in. Battens	12s. 6d.		

per 100 feet. CUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mills, SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

## VALUE IN WHEAT.

Good, Sound English Wheat, grown on my  
own farm. This wheat must not be con-  
fused with 'Feed' Wheat; as it is quite  
suitable for milling into bread flour.  
12/- Cwt. 211 lbs. 6d. Ton.  
Free on Rail. Bags Free.

**CAPT. STUART SMITH,**  
KINOULTON, NOTTS.

## AUSTRALORPS FARMS, Ltd.,

Importers, Breeders, Exporters.

**AUSTRALIAN BLACK ORPINGTONS.**

700 Imported, 1922. 500 Mated.

All Birds Trap-Nested.

Cockerels and Pullets from £2 2s. 6d. each.  
Imported Stock acclimatised from £4 4s. 6d.  
each.

Photo Book Free.

Street Court, Kingsland, Herefordshire.

## READ THIS!

Glengariff, Effingham Road, Surbiton, September 16th, 1922.

"Dear Sirs.—I am very pleased with the result of 6 months' use of MILKO Laying Meal, the  
birds never tire of their food since I started using it. They have laid well all through the summer, and  
I am now getting 9 to 12 eggs a day from 15 hens, last year at this time from the same number I had 5  
eggs a week. I brought all my chickens up on your chicken, and growing meals, and have had most  
satisfactory results, fine birds, no sickness, no losses.—Yours, etc., Miss MABEL PATTERSON."

The above is only one taken at random from dozens received every week.

YOU, too, will get better results in every possible way if you start to-day  
to use MILKO foods . . . the original milk foods for poultry. MILKO  
Laying Meal is now used on many of the largest poultry farms in the  
country. Tons sold every week, and repeat orders reach us every day.  
Remember, that a food based on milk, is safer to use than foods based on  
any other animal matter. There are many different kinds of foods and  
condiments that will produce eggs, but you must use a food that will give  
you a heavy egg yield, and at the same time keep your birds in perfect  
health, so that they will be able to produce fine fertile eggs and strong  
healthy chicks in the Spring. For this purpose there is not one other food  
that can beat MILKO Laying Meal. Prove our claims for this meal by  
getting a supply right now!

Your young pullets, if they are not six months old yet, need MILKO  
GROWING MASH now. It is the best food for building fine sturdy bodies, and  
provides them with the necessary stamina for heavy egg-production during  
the winter months. Give your laying birds MILKO LAYING MEAL, the  
greatest egg-producer ever offered to British Poultry Keepers. Test these  
two foods for yourself. You will never regret doing so, and we know that  
you will continue to buy MILKO foods in future. Note low prices—MILKO  
GROWING MASH, 25/6 per cwt.; 4 cwt., £4 18s. MILKO LAYING MEAL,  
23/- per cwt.; 4 cwt., £4 8s. All Carriage Paid.

**SPECIAL TERMS TO LARGE BUYERS. PLEASE WRITE US.**

GET A SUPPLY TO-DAY.

## MILKO FOOD CO.,

(Dept. 2),

**Fleet House, Fleet Street,**  
**LONDON, E.C. 4.**





**POULTRY - KEEPERS**, one and all, far and near acknowledge and respect the supremacy of

## CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

### Consistent Success

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

**WHITE LEGHORNS, WHITE WYANDOTTES.**

PRICE  
LIST  
UPON  
REQUEST.

*Satisfaction  
Guaranteed.*

**EDWARD CAM,**  
THE GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

*HIS  
WHITE WYANDOTTES  
and WHITE LEGHORNS  
are unbeatable as layers of  
large eggs, and plenty of them.*

*Send 1d. stamp for Catalogue and list of  
Prices. Fully Illustrated, it is worth having.*

### WHO SERVES BEST.

*Advertisers are kindly requested to  
forward their Copy at once for the  
S.P.B.A. ANNUAL REGISTER.*

**"An Egg in Every Guince."**

## CLOVER MEAL

**FOR POULTRY.**

*"Klovers" brand of Clover Meal is  
the best Clover Meal on the market,  
and is unequalled for egg production.*

*"Klovers" is the only Clover Meal  
used in the Laying Test of the  
"S.P.B.A." and "Daily Express"  
Competition.*

**Price 18/- per cwt.  
Half-Lot 10/-**

*Special price for 5 cwt. lots.*

*Carriage Paid in England*

## ROSSLYN & Co.,

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from	40/-
1921	"	12/-
1920	"	10/-
1919	"	6/-

Specially Selected Cockerels  
from 6/-

*\*Phone:— 6 Chaddleworth.      Grams:— "Sonimor, Leckhampstead."*

# EGG FARM

LECKHAMPSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, October 4th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

Hammett generously offered to provide accommodation for 120 pens; this offer was gratefully accepted, and the President said he thought Mr. Mather might be induced to follow Mr. Hammett's example.

The Treasurer submitted his report; he stated that over £150 was due from Patrons and affiliated societies, and it would greatly help the Council if these fees were paid promptly. He appealed to the Delegates to each make an effort to secure a patron.

## MARKING OF FOREIGN EGGS.

Mr. Stanley Street-Porter said that the Committee had kept in close personal touch with Col. Murrough Wilson, M.P., who was to move the amendment for the inclusion of a clause in the Merchandise Marks

## THE DAIRY SHOW,

Agricultural Hall, Islington.

Tuesday, Wednesday, Thursday and Friday, October 17th, 18th, 19th, 20th.

**The S.P.B.A. STAND is  
No. 151 in the Gallery.**

THE ANNUAL GENERAL MEETING will be held in the PRINCES SALOON at 12 o'clock on THURSDAY, OCTOBER 19th.

Mr. J. GERARD KITSON will preside.

## EDITORIAL.

THE NATIONAL POULTRY COUNCIL.

MEETING AT YORK.

The Quarterly Meeting of the National Poultry Council was held at Y.M.C.A. rooms, York, on Thursday, September 29th, the President, Col. Sandbach, being in the Chair. There was a good attendance of Delegates. The report of the Executive Committee was read by the Chairman (Mr. A. T. Walker), and adopted.

The success of the Laying Tests held in Lancashire and Cheshire under the management of Mr. W. Hammett and Mr. J. H. Mather, on behalf of the funds of the Council, led to the question of their being continued during the coming year. Mr.

Bill providing for the Marking of Foreign Eggs. He had also seen Mr. Clynes and enlisted the support of the Labour party. Mr. Clynes could not give him an assurance which would definitely commit his party, but he had said he was favourably impressed with their arguments, and they had reason to hope that they would secure his support. They had interviewed Mr. J. H. Donaldson of the National Farmers' Union, and he had been to the Ministry of Agriculture to obtain their support. Gratification at the work of the Committee was expressed by the Delegates present, the efforts of Messrs. Street-Porter and Walker being much appreciated.

## RAILWAY RATES.

Mr. Clem Watson, Chairman of the Committee, said as it was only recently appointed not much had been effected at present; he instanced the difficulties they were up against. He had formed one of

a deputation which was received at the Railway Clearance House, and the railway representatives were each accompanied by a clerk with files of papers, to which they were able to refer for precedents, etc., which they quoted against arguments advanced. He spoke of the different rates for eggs sent for hatching and consumption at owner's risk. Mr. Hammett had sent several lots, on those for hatching he was charged 1s. and those for consumption 7d., the plea was that porters were instructed to handle hatching eggs with greater care, but in one case three hatching eggs were smashed to pulp, and only one of those sent for consumption was slightly cracked. Each station or company seemed to be a law unto itself, there were so many different rates, there was the dealer's rate of 2s. 6d. per cwt, and 1s. 3d. per half-cwt., while the producer's was 4s. for the cwt. or half-cwt. They had obtained concessions in pre-War days for fanciers sending birds to shows, but these had been withdrawn, and the rates now were excessively high and unjust in their incidence. He appealed to the Press to ask readers who were suffering injustice at the hands of the railways to send particulars to one of the members of the committee (Mr. Watson, Mr. Tom Newman, Mr. Brain or Major Potter). In answer to Col. Hardy, he said the producer was not a dealer, the wholesaler was the dealer, but if the wholesaler paid carriage to the producer, the latter could claim to send eggs at dealer's rates.

#### NATIONAL POULTRY DIPLOMA EXAMINATIONS.

Mr. P. Hedworth-Foulkes said the examination had recently been held at Harper-Adams' College. There were eight candidates, and three had been successful, including Miss Blakeway, who had failed in book-keeping last year. The successful candidates were Miss Blakeway, Mr. T. E. Bell and Mr. A. T. Atkinson. To meet the case of existing Instructors, it had been deemed advisable to grant exemption from rules 1, 2, 3 to those County and Institutional Instructors who had been teaching for a period of five years. Mr. Street-Porter, as one of the examiners, spoke strongly of the bad training which many of the candidates had received; he said their ignorance was astonishing, and they would ruin any farm which was placed under their management in six months, or ruin themselves if they started. It was most necessary that high standard should be set by the Diploma Board.

Mr. A. H. Brownson gave notice that at the next meeting he would formally propose that, in consideration of great services rendered to the industry, Mr. P. Hedworth-Foulkes be elected an Hon. Life Member of the Council.

#### NATIONAL POULTRY INSTITUTE FUND.

Mr. Edward Brown informed the Council that the total sum collected was practically £4,000; they were disappointed that the County Funds had not given better results; it had now come to the stage when there must be individual action if they were to raise the money.

#### UNIFORM SCORING IN LAYING TESTS.

Mr. T. R. Robinson stated that Mr. J. N. Leigh

was arranging a meeting of the managers of laying tests with a view to this end.

#### INCREASED CONSUMPTION OF EGGS.

Mr. Kitson, Chairman of the Press Committee, stated that they had been able to do little in this matter; as a moderate estimate to be effective it would cost £200 a week for 10 or 15 weeks, and he did not think it was wise to attempt to raise the money at present.

#### PREVENTION OF DISEASE.

The following committee were elected for the purpose of investigating practical means for the prevention of disease in accordance with the resolution passed at the Leamington Conference: Mr. Tom Newman, Col. Hardy, Mr. Ernest Evans and Mr. Meekings.

#### POULTRY KEEPING BY TENANTS OF COUNCIL HOUSES.

It was agreed, on the proposal of Mr. A. H. Brownson, that the N.P.C. should deal with each case on its merits.

#### REGULATIONS IN URBAN AREAS.

The following resolution moved by the Manchester and Salford District Poultry Society, which was referred to the Council by the National Poultry Council, was considered:—

"That, in the best interests of poultry keeping in urban areas, and as a protection to public health, the National Poultry Parliament resolves that the recommendations of the Medical Officer of Health for Manchester, together with those made in Leaflet No. 1 by the National Poultry Council, be so drafted and enacted as to make applicable to the whole country.

And, further, that the National Poultry Parliament send requisitions to the Home Secretary and the Minister of Health to secure their general adoption."

Mr. Tom Newman characterised this as a most dangerous resolution, it was inviting the interference of officials which at all costs they wanted to avoid; it would mean there would be irritating restrictions where none were at present imposed.

Mr. C. Longbottom opposed the resolution and moved that no action be taken. This was seconded by Mr. Collier and agreed to.

#### STATUS OF GENERAL SOCIETIES.

Mr. A. T. Walker asked the President for a ruling as to whether the Lancashire Utility Poultry Society was a general society within the meaning of the constitution of the National Poultry Council. The President ruled that it was a General Society according to the terms of the constitution of the N.P.C. The Council discussed the following resolution as to the status of general societies:—

It is hereby resolved that the interpretation of the term General Poultry Societies, as provided for in Section V. of the Constitution of the National Poultry Council shall be:—

(a) That any such Society to be regarded as a General Poultry Society shall not be restricted in its operations to any breed or breeds, or to a local district or area of less than 1,000 square miles, or shall be a Federation of Local Poultry Societies; and

(b) That a Society other than the above whose members are not limited to a local area, and which undertakes educational or organisation work, shall be eligible for inclusion in the list of General Poultry Societies under Section V. of the Constitution of the National Poultry Council.

The Council considered an invitation from the Blackpool Corporation to hold the meeting of the National Poultry Parliament at Blackpool in September, 1923. Mr. Hammett assured the Council that they would receive a very hearty welcome, and everything would be done to make their visit a pleasant one. It was unanimously agreed to accept the invitation. It was decided that the next meeting of the Council should be held at Brighton in January, Mr. Bostock-Smith undertook to make the necessary arrangements.

A vote of thanks to the York and District Poultry Society for the splendid arrangements for the meeting of the Council was moved by Mr. Stanley Street-Porter, who made special reference to the kindness of Mr. A. J. Moore, the energetic Secretary of the Society. This was carried unanimously. Mr. Moore in reply expressed the pleasure the visit of the Council had given himself and his Committee; he was pleased to inform them they had had a very successful meeting the previous day, and it had been resolved to form a Federation of Yorkshire Societies.

#### REPORT OF EXECUTIVE COMMITTEE TO NATIONAL POULTRY COUNCIL

(presented at York Buildings, September 29th, 1922).

The Executive Committee begs to report that it has held one meeting since its election at Leamington in July last.

**Affiliation.**—Application for Affiliation has been received and approved from the Warwickshire Federation of Womens' Institutes.

Considering the interest taken by women in poultry keeping and the opportunity afforded for its extension through the activities of Womens' Institutes, it is hoped that every effort will be put forth to bring these into association with the National Poultry Council. The influence of members of the Council in this direction is invited.

**Patron.**—Application as Patron has been received and accepted from Miss Bell, Hazeldene, Ightham, Kent.

The list of Patrons is far from what should be the case in order to help in maintaining the work of the National Poultry Council.

Reports will be presented to the Council from the respective Sub-Committees as to their special fields of operation, and on the National Poultry Examination Board.

**National Poultry Institute.**—The work of the officers has been largely concentrated upon raising the £6,500 required to secure the grant of £50,000

offered by the Government for a National Poultry Institute and Research Stations. The amount received and promised to date is £3,858 5s. 8½d. Whilst it is satisfactory to record that there is a steady growth, this is much less than might reasonably have been expected. Some Societies and Poultry Keepers have responded splendidly, but the greater mass have done little or nothing. The publicity given so abundantly by the Press is beyond all praise, and, when accomplished, the success of the Scheme will be largely due to their generous help and co-operation. About £3,000 more has yet to be raised so as to meet the expenses incurred for printing, postage and clerical assistance, which has been kept low. The fields which have as yet not been fully covered are (1) farmers and small poultry keepers; (2) traders, both of supplies and distribution; and (3) those concerned in promoting the National welfare. Up to the present stage the response through County Funds has not realised what was expected. The Executive Committee invites the co-operation of all Members of Council and Affiliated Societies for realisation of the object in which the honour as well as the future progress of the poultry industry are involved.

**Local Authorities and Poultry Keeping.**—A large amount of correspondence has taken place as to cases where notices have been given for removal of poultry in Urban areas and in connection with allotments, which were reported to the Ministry of Health, and in others advice has been given as to procedure on the part of poultry keepers. In several instances arrangements have been made for inspection by well-known poultry keepers in the respective districts, to whom the National Poultry Council is indebted for their assistance. Where the conditions are satisfactory, the evidence of these gentlemen will be most valuable in case legal action is taken. In some instances the action stated has been immediately effective. All cases should be reported at once to the National Poultry Council so that steps may be taken to defend smaller poultry keepers.

A more serious difficulty arises in connection with the prohibition in many cases of poultry keeping by tenants of Council Houses. It is suggested that careful consideration be given by the Council to this subject which was raised at the National Poultry Parliament.

**Packing of Eggs.**—With reference to the refusal by Railway Companies, as reported in May last, to accept eggs for consumption at Company's Risk in Raylite and Markham Egg Boxes, a letter was received from the Railway Clearing House, stating that the Railway Companies had agreed to an experimental period of six months for specified types of boxes. Eggs for Hatching to be accepted at Company's Risk are required to have special packing.

**Lancs. and Cheshire Laying Trials.**—Arrangements have been made for the sale of birds generously donated for the benefit of the National Poultry Council, and entered in Blackpool, and at Mr. J. H. Mather's, at Audlem, at Blackpool, on October 28th, when it is hoped that these will find purchasers at good prices. The Executive Committee ask that this sale shall be made known as widely as possible.



## Foods and Feeding.

By TOM NEWMAN.

At the meeting of the British Association at Hull, Professor Drummond stated that the question of vitamine nutrition was likely to assume greater importance in the future. The essential functions of Vitamines had been definitely established, and there was now no doubt that when they were absent from the diet in sufficient quantities, growth was checked, and there was a greater liability to disease, and a general lower power to resist disease on the part of the individual. *The danger, however, could be exaggerated. In fact it could be said that it really only existed in the case of young persons and animals deprived of their natural foods.*

We have to connect this possible deficiency with the highly fecund hen. As I have pointed out before the egg of the heavy producer is to some extent depleted of these accessory food factors. Our present methods of rearing en masse, and crowding hundreds of birds to the acre are partly responsible for this. If we ran our birds at 100 to the acre, instead of 400, and did not rear hundreds of chicks in fixed brooder houses, we should not have to worry about Vitamines. The great point that we have to bear in mind is that: *The more fowls are bred for maximum production the more they are susceptible to disease, and a deficiency of Vitamines checks growth, means greater liability to disease, and lowered powers of resistance to it.*

Dr. Seidel has described his attempts to isolate the three Vitamines. So far only partial success has rewarded his efforts. They had not been able to obtain any of the three in a pure state. He intimated, however, that they were much more stable bodies than had hitherto been imagined. It is not quite clear that they are not destroyed by boiling, if the boiling is not very prolonged.

While one can hardly attach too great importance to Vitamines, it is well to remember that there are other factors of equal importance, i.e., protein values and mineral salts, and last, but not least, Digestibility. As I have said before, the element likely to be lacking more than anything else from egg of the prolific layer is the mineral salts, particularly the lime salts. In that case the possibility of her chicks reaching a healthy and vigorous maturity is a remote one, and if we cannot supply these in the natural foods, as is almost impossible when we are running 400 birds to the acre, then we must find some other source of supply. I wonder how much Bacillary White Diarrhoea is due to a deficiency of mineral salts—not to speak of other diseases. In the experiments at the Wellington P.F. all these factors are receiving the most careful attention.

While on the subject of Vitamines, I may relate the following curious incident. A friend, by way of being a fancier of Blue Beveren rabbits, came to me in great distress because her best doe was paralysed. She was only able to move her head and fore paws.

She had been ill for three days, and was gradually getting worse. I hardly know a Beveren from a Chincilla, only a certain friend of mine proudly wears a pair of gloves made from Beveren skins. I know nothing of rabbit diseases, but thinking this might be akin to polyneuritis in fowls, advised her to try Marmite, and this treatment proved most successful; improvement set in after the first dose, two doses more were given, and she has now fully recovered. What was most astonishing was the rapidity of the cure; in less than three days the rabbit was perfectly well again. What the origin of the trouble was I cannot say, as there was a plentiful supply of fresh green food, one would not think there was any lack of the "B." Vitamine. Perhaps other rabbit fanciers may be glad of the hint, especially as my friend showed me a paper in which an expert, in reply to a correspondent, said there was no cure for this disease, and the only thing was "rubbing."

I have been asked to repeat the mash recommended for breeders in the January 25th issue of "Eggs." It will be recollected that the formula I suggested was advised because of its high Vitamine content, also the protein value and the mineral salts. At the same time a formula on the same lines was advised for rearing chicks. In regard to this latter I can say now that I have had a very large number of letters from readers who declare themselves highly pleased with the results it has given. They tell me they have never had such fine, healthy, well-developed chicks. The breeder's mash is as follows:—

Broad Wheat Bran	...	...	4lbs.
Middlings	...	...	4lbs.
Maize Germ Meal	...	...	2lbs.
Sussex Ground Oats	...	...	1lb.
Crushed Linseed	...	...	$\frac{1}{2}$ lb.
Dried Yeast	...	...	$\frac{1}{2}$ lb.
Fish Meal Impregnated with			
Cod Liver Oil	...	...	1lb.

In place of the latter dried milk might be used with advantage, but in that case  $1\frac{1}{2}$ lbs. should be given. If there is a shortage of green food, it would be advisable to use two parts good Alfalfa or Clover Meal in place of two parts Bran, and give the birds swede turnips to peck.

In reply to many enquiries as to fattening mashes, the following will answer, parts are by measure, and preferably they should be cooked mashes, as being mainly carbohydrates, they will be far more easily digested if cooked.

Three parts Middlings, one each Maize Meal, Barley Meal and Sussex Ground Oats, half part Meat Meal, or one part dried butter milk or skimmed milk. If skimmed milk is available, neither of the last three ingredients will be necessary. It should be mixed to a crumbly consistency, not so dry as when fed to laying stock, but not sloppy. Potatoes may well be used in place of the Barley Meal, Maize Meal, and Ground Oats. They are a cheap fattening food, and variety helps to stimulate the appetite. This feed should be given in troughs twice a day, as much as the birds will clear up in 20 minutes. What is left should be removed. In addition, they may be given a feed of boiled rice or wheat.

It should not be forgotten that success in fattening depends on other factors besides the food. The birds must be kept as quietly as possible; a frightened nervous bird does not digest its food. If the house is a little on the dark side it will be an advantage.

For the professional fattener the whole question of feeding the chicks from the shell in order to get them to the fattening stage at the earliest possible moment is of the highest possible importance, but I cannot enter into that now.

## THE INFLUENCE OF THE RATION FED TO GROWING CHICKENS ON THE LATER EGG PRODUCTION OF THE FEMALES.

By HORACE ATWOOD.

Continued from page 178.

### WEIGHT OF PULLETS.

Each pullet was weighed on a spring balance graduated to 1/10 lb. on January 22nd when they were transferred to their laying quarters, and beginning March 1st they were weighed regularly at the beginning of each calendar month. In all cases this weighing was done at night soon after the pullets had gone to roost.

Basing the averages on the average weight of the full sisters in each lot data show that not only were the pullets in lot B smaller on January 22nd when they were placed in the laying house with lot A, but they permanently remained smaller. Due to the better balanced ration fed lot B, beginning January 22nd, the pullets of this lot made a gain in live weight of almost one pound each by March 1st, while the pullets of lot A increased in weight only about 1/3rd as much. The average weight of the average well fed daughter for September, October, November and December was 3.30 lbs., while those that had been poorly fed averaged 3.05 pounds or a difference of about 8 per cent. This indicates that fowls that have been stunted by receiving a poor ration while young will not attain their normal weight later in the season even though fed a normal ration.

### MANAGEMENT OF THE PULLETS.

After the pullets were placed in their laying quarters they had free access to dry mash in a hopper, and once per day a mixture of corn and oats was scattered in the litter covering the floor of the poultry house. The dry mash was composed of corn meal two parts and one part each of wheat bran, wheat middlings, and meat scrap.

On the start for fear that they might nest outside and the eggs not be recorded the pullets were confined to the house until after practically all eggs for the day had been laid. Later in the season after they had become fully accustomed to the trap-nests they were allowed free range on a blue grass sod.

In spite of the utmost care in trapping 2.4 per cent. of the eggs were laid outside of the trap-nests and in the following tables showing egg production and egg weights these eggs have been disregarded.

The eggs were weighed on a chemical balance sensitive to 1/100 gram regularly early in the morning following the day on which they were laid.

### EGG PRODUCTION.

During the period which ended March 1st the pullets that had been well fed while young laid about 4 times as many eggs as the others, and in March they reached their maximum production for the season, averaging 22.94 eggs each. The maximum production of the poorly fed daughters was reached one month later with an average of 20.49 eggs each, this production being slightly greater than that of the other lot for that particular month.

From the two maxima in March and April the production dropped with fair regularity until the end of the period covered by this report. It is to be observed that Lot A, the daughters which had been well fed, led in production, with the exception noted, from month to month.

### AVERAGE EGG WEIGHT.

During the January-February period the eggs from lot A averaged about two (2) grams heavier than those from lot B, but during the next few months the difference was small, lot A laying slightly the larger eggs. In August this condition was reversed, lot B laying the heavier eggs. This result, however, may have been due to the relatively heavy production of pullet 306 which laid 20 eggs, or more than 1/8th of the entire number for lot B, with an average weight of more than 60 grams. In September lot B still led slightly in egg weight, but in October and November lot A led by about 1 gram per egg.

TABLE II.

Summary of Egg Production and Egg Weight to December 1st, 1921.

		Lot A.					
Dam No.	No. of Pullets	No. of Eggs Laid	Total wt. of Eggs.	Av. Eggs per daughter	Av. Total wt. of eggs per daughter.	Av. egg wt. per daughter.	Av. egg wt. per daughter.
Y 9729	311	180.	9121.11	180	9121.11	50.67	
66	308	56.	2766.82	129.	6588.17	51.07	
	313	166.	8639.52				
	322	165.	8358.16				
104	330	84.	4155.15	84.	4155.15	49.46	
136	327	149.	8046.39	129.	6670.33	51.71	
	351	109.	5294.28				
Y 9731	356	150.	6933.15	150.	6933.15	46.22	
Y 9791	349	165.	8703.98	165.	8703.98	52.75	
45	333	140.	6931.33	140.	6931.33	49.51	
12	301	146.	7204.57	165.5	8271.39	49.98	
	309	185.	9338.22				
22	325	162.	7944.56	162.	7944.56	49.04	
49	324	156.	7712.93	150.	7827.51	48.85	
	320	125.	5823.34				
	342	169.	8446.27				
10	332	177.	9294.24	173.5	8910.64	51.36	
	355	170.	8527.05				
28	336	122.	5621.45	143.5	7053.63	49.16	
	331	165.	8486.22				
7	302	187.	9685.88	187.	9685.88	51.80	
19	326	132.	7003.25	148.	7824.49	52.87	
	315	164.	6645.73				
37	347	130.	6408.03	130.	6408.30	49.29	
Total		3554.		2236.5	112529.55		
Average		148.08		149.1		50.31	

TABLE III.

Summary of Egg Production and Egg Weight to December 1st, 1921.

## Lot B.

Dam No.	No. of Eggs Laid.	No. of Eggs Laid.	Total wt. of Eggs.	Av. Eggs per daughter.	Av. Total wt. of eggs per daughter.	Av. egg wt. per daughter.
Y 9729	314	140	7267.11	140.	7267.11	51.91
66	338	92	4486.40	92.	4486.40	48.76
104	303	94	4773.68	94.	4773.68	50.78
138	341	106	5380.25	110.67	5656.78	51.12
	337	98	5075.33			
	339	128	6514.75			
Y 9731	304	112	4745.10	112.	4745.10	42.37
Y 9791	346	74	3680.60	119.	5733.97	48.18
	321	164	7787.35			
45	312	83	4358.49	77.5	3935.01	50.77
	350	72	3511.53			
12	305	180	8808.38	172.	8877.57	51.61
	316	138	7107.70			
	323	183	8913.99			
	306	187	10680.22			
22	319	163	8155.41	163.	8155.41	50.03
49	329	100	5340.81	100.	5340.81	53.40
10	352	135	6417.36	123.	6119.30	49.75
	335	111	5821.22			
28	354	143	7389.22	143.	7389.22	51.67
7	348	78	4032.28	78.	4032.28	51.70
19	334	126	6289.50	129.	6653.78	51.58
	345	132	7018.06			
37	340	74	3627.98	74.	3627.98	49.03
Total		2913		1727.17	86794.40	
Average		121.37		115.14		50.25

Tables II. and III. summarise the production until December 1st, at which time practically all the fowls in each lot were moulting and had ceased to lay. These tables show the total number and the total weight in grams of the eggs laid by each pullet until December 1st, the average number and weight of eggs laid, and the average egg production and egg weight of the average daughter in the two lots.

## MEAN EGG PRODUCTION.

The mean egg production until December 1st of the average daughter in lot A was 149.3—4.23 and of the average daughter in lot B 115.6—4.81, or a difference of about 34 eggs per bird in favour of the well fed lot. The 24 well fed pullets laid 3,554 recorded eggs or 148.1 eggs per fowl, while the 24 poorly fed ones laid 2,913 eggs or 121.4 eggs, a difference of 26.7 eggs in favour of the well fed pullets. Whichever way the results are calculated the differences in egg production are large and striking.

It may be observed here that if a poorly balanced ration fed to little chickens can be the means of

restricting the number of eggs that the pullets can lay later, then the reverse should be true that an ideal ration should be the means of increasing the number of eggs. It is undoubtedly true that in order to obtain the maximum egg production skillful breeding and skillful feeding and brooding of little chickens must go hand in hand.

## MEAN EGG WEIGHT.

When the average egg weight for the two lots is considered the difference is found to be small. For lot A,  $M = 50.24 - .29$  and, for lot B,  $M = 50.20 - .43$ . What difference there is seems to be in favour of the well fed lot, but the data do not show definitely that the size of the egg has been reduced by the insufficient ration received by the pullets of lot B. The difference, if any, would naturally be small, at least in the first generation.

Since the preceding paragraph was written data covering seven additional months has been secured as shown in Table IV.

TABLE IV.

Egg Production and Egg Weight to July 1st, 1922.

	Lot A.		Lot B.	
	Total No. Eggs Laid.	Average egg weight.	Total No. Eggs Laid.	Average egg weight.
December 1922	23	57.97	39	57.59
January	20	58.69	22	59.78
February	136	57.71	126	57.28
March	375	57.70	407	56.37
April	487	56.75	454	55.37
May	507	55.48	494	55.10
June	486	54.44	454	54.06

During December and January the egg production was so small that the average egg weights for these months is of very little value, but it is to be observed that for the five following months the average egg weight for lot B was smaller than the corresponding averages of lot A in every instance, and the indications are that the weight of the eggs of lot B has been slightly reduced by the poorly balanced ration which those fowls received during their early development.

If the eggs laid by lot B are measurably smaller than those laid by lot A this fact might indicate that the vigour of the progeny may be affected by the early environment of the parent stock.

## HEREDITY.

Reverting to Table II. and II. the data show that in some cases heredity is such a powerful force that it is able to override and overcome any ordinary adverse environmental factor which might affect the individual during the formative period. Pullet 306, a daughter of hen No. 12, although poorly fed while young, laid as many eggs, 187, as any member of the flock, laid the heaviest eggs, the greatest total weight of eggs, and moreover was the heaviest bird in either lot A or lot B.

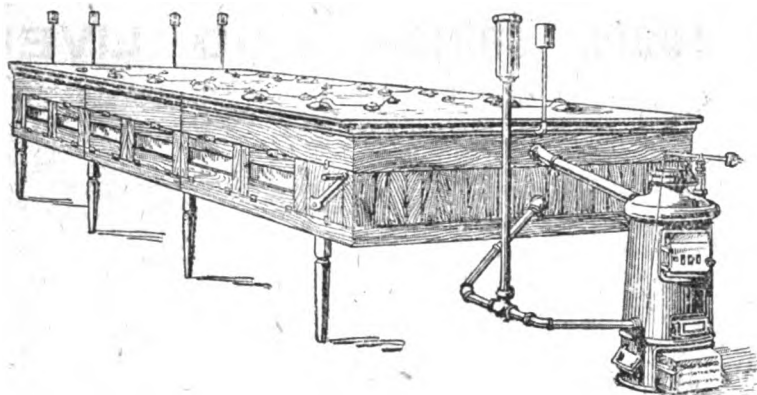
Of the three pullets which laid 180 or more eggs in lot B all were daughters of hen No. 12, and of the two birds of lot A laying 180 or more eggs one

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

### SPECIAL LIME STONE GRIT. NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.).

3s. 6d. per cwt., 63s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM.**

"Malbree," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts

Samples Free. Six Grades.

Liberal Commission Paid



The Henman says "It's It."

### CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt.
	s. d.
CHAMPION MIXTURE	20 0
A.I. MIXTURE (with or without Maize)	18 0
X.B. MIXTURE	17 0
X. MIXTURE	16 0
CLIPPED OATS	18 0
OLD WHEAT	18 0
WHEAT	16 0
CHAMPION KIBBLED MAIZE	18 0
CHAMPION LAYING MEAL	21 0
CHAMPION DRY MASH	21 0

Carriage Paid, England and Wales.  
Scotland 2/- per cwt. extra.

NO DUST. NO WASTE. Mixed and Well  
Cleaned by Special Machinery.

For other Specialities see Price Lists.

Samples and Price Lists free on  
application to

**WILLIAM BRINKLER & SONS, Ltd.**

Pigeon and Poultry Food Dept.,

(5) CLAPHAM GRANARIES, LONDON, S.W.4

Telephone: BATTERSEA 211.

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.  
WHITE LEGHORNS.**

The best equipped Poultry Farm in the Midlands, with stock equal to the very best, and entirely free from Disease.

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

250 Tested Breeding Hens, with Complete Trap-Nest Records and Pedigrees.

Fertility and Hatchability, 90 per cent. No Small Egg Birds.

1921 Birds with Records about 184 First Grade Eggs, from 10/6.



# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note: OUR FOODS CONTAIN COD LIVER OIL.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ...	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ...	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ...	17 6
Alfalfa Meal ...	22 0	Kibbled Maize (Screened) ...	14 6
Green Clover Meal ...	18 0	Bearall 1st Chick Feed ...	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ...	21 0	Thryvon 2nd Chick Feed ...	22 0
Meat Meal (65 per cent. Alb. and Fat.) ...	23 0	Matua Chicken Mixture ...	20 0
Chick Rearing Meal (Special), impregnated with 1½ per cent. Cod Liver Oil (no milk required) ...	20 0	Yeast ...	19 0

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
Mr. BRUCE WILCOCK, A.P.F.D.,  
as our Poultry Expert. Should you be in  
any difficulty we will be pleased to assist you.  
Our information bureau is free to all.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS.**

### NOTE NEW PRICES.

#### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.
Dried Skimmed Milk ...	24 0
Sussex Ground Oats ...	16 0
Maize Meal ...	11 0
Maize Gluten Feed ...	12 0
Pea Meal ...	16 0
Bean Meal ...	16 0
Meat Meal (Fine Ground) ...	22 6
Fish Meal (Best White) ...	23 6
Biscuit Meal (Fine) ...	22 6
Clover Meal ...	18 0
Broad Bran ...	12 0
Middlings (Best Fine White) ...	14 0
Middlings (English) ...	12 0
Feed Wheat (Best English) ...	14 0
Feed Oats (Best English) ...	15 0
Kibbled Maize (Sifted) ...	12 0
Flint Grit ...	5 0
Limestone Grit ...	5 6
Oyster Shell ...	8 0
Cockle Shell ...	6 6
Rollod Wheat (for Chicks) ...	15 0
Dried Yeast ...	20 0
Pinhead Oatmeal ...	26 0
Whole Oat Groats ...	26 0
Broken Rice ...	18 0
*No. 1 Chick Feed ...	22 0
Mash for Laying Hens ...	16 0

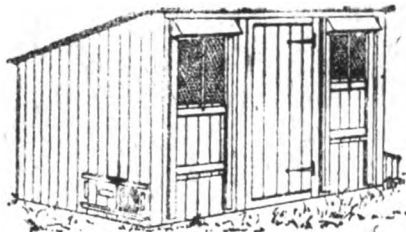
(Both the latter are Mr. Tom Newman's Recipes.)  
FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Garr, Macdonald & Clevely, Ltd.,**  
*Britannia Mills,*  
**HEATHFIELD, SUSSEX.**

## GREAT BARGAIN!



**Only £5 Free on Rail.**

This house is 9ft. 0in. x 8ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected tin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 10/-; if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**

'Phone: 521 SHIPLEY.

### REDUCED PRICES.

#### CLARK'S PURE SUSSEX GROUND OATS.

##### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags ...	2 3
12lb. Bags ...	3 0
28lb. Bags ...	7 6
56lb. Bags ...	12 0

##### PRICES PER CWT.

	s. d.
1 cwt. ...	25 0
3 cwts. ...	24 0
6 cwts. ...	23 6

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
**56, HIGH STREET,**  
**LEWES, SUSSEX.**

October 4th, 1922.

EGGS.

LATEST ORDERS AND ENQUIRIES FOR POPULAR HOUSES, CYCLE HATCHERS, AND "PIONEER" HOVERS HAVE COME FROM INDIA, SOUTH AMERICA, BERMUDAS, BARBADOS, ETC.

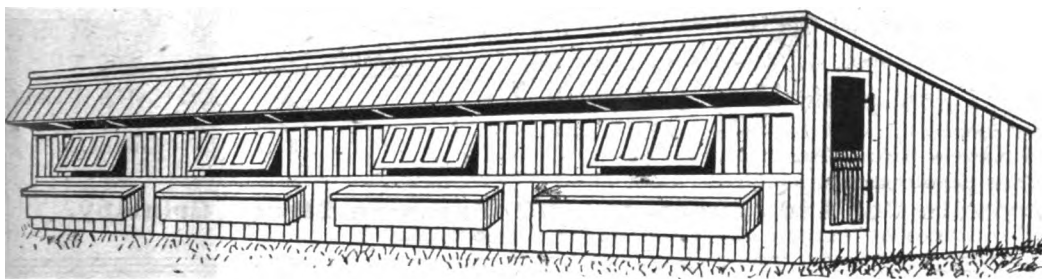
## The "POPULAR" House.

THE MOST COVETED HOUSE AT PRESENT ON THE MARKET.

I HAVE NO NEED TO COMMENT ON ITS SUPERIORITY OVER OTHERS, AS THE ILLUSTRATION PROVES ITS VALUE.

*Sizes are guaranteed.*

*See you get this guarantee from others.*



No. 1.	6ft. long, 10ft. wide	£14 5 0
2.	10ft. long, 10ft. wide	£19 4 9
3.	16ft. long, 10ft. wide	£27 1 8
4.	20ft. long, 16ft. wide	£42 5 6
5.	30ft. long, 16ft. wide	£62 2 6
6.	40ft. long, 16ft. wide	£82 3 6

### FLOOR AND SLEEPERS.

No. 1.	...	£3 6 6
2.	...	£4 0 3
3.	...	£7 12 0
4.	...	£14 9 9
5.	...	£20 3 0
6.	...	£26 2 6

ANY SIZE QUOTED FOR.  
PENETRATING, the best preservative, IS INCLUDED.  
SLEEPERS, which are penetrated, ARE INCLUDED.  
WATER FOUNTAINS, best galvanised iron, ARE INCLUDED.  
DRY MASH HOPPERS, also best made, ARE INCLUDED.  
BEST 2-PLY FELT ON ROOF, THIS IS INCLUDED.  
DROPPING BOARDS, PERCHES, BOLTS, LOCKS, LATCHES, GLASS, TWO WIRE  
DOORS to No. 3 Size, and up, IN ADDITION to WOODEN ONES. All Prices. Less 5  
per cent. to M.S.P.B.A.

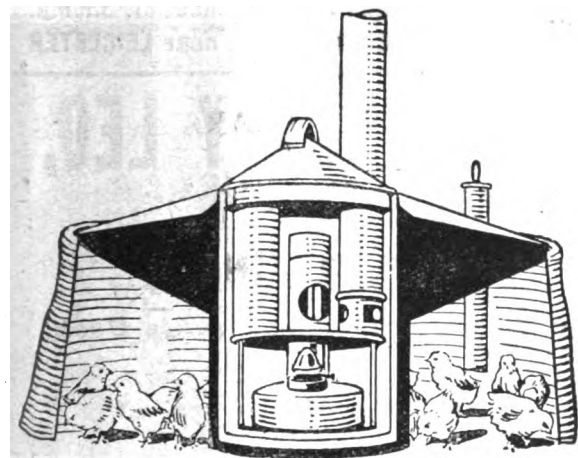
All  
Carriage  
Paid.

IF YOU ARE NOT SATISFIED WITH YOUR PRESENT SUPPLIES, WRITE ME, I WILL GUARANTEE SATISFACTION.

MANY WISE POULTRY KEEPERS ARE MAKING READY FOR NEXT BREEDING SEASON. MEANTIME PLEASE KEEP MY PIONEER HOVER IN YOUR MIND. THERE IS TO BE A BUMPING DEMAND, AND YOU WILL BE WISE TO BE READY.

**THE "PIONEER" WILL BE BETTER THAN EVER.**

SHOWING INTERIOR OF HOVER.



### PRICES

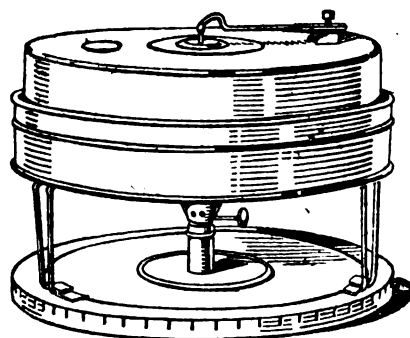
will remain the same  
with greatly  
IMPROVED LAMP.

100 to 150  
Chick size  
**£2 10 0** each,  
carriage paid.

50 to 75  
**£2 4 0**  
carriage paid.

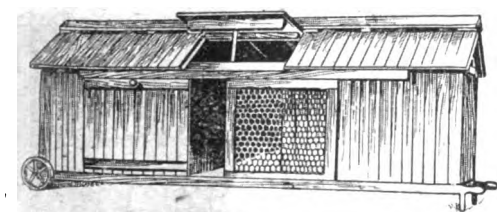
ALSO BEAR IN MIND

### THE GENUINE CYCLE HATCHER.



50 Egg size **£3** only. Car. paid.

MY OWN POULTRY YARDS ARE OPEN FOR INSPECTION. YOU CAN SEE THERE HOW THINGS SHOULD BE DONE. I GIVE ALL HELP POSSIBLE TO BEGINNERS. VACANCY FOR TWO WORKING PUPILS.



## The "C.A.S.H." Night Ark.

No. 1. 9ft long, 2ft. 9in. wide, to accommodate from 50 to 60 chicks up to killing size, £4 11s. 3d.; penetrated, 7/6; 4 nests, 16s. 6d.  
No. 2. 6ft. long, 2ft. 9in. wide, to accommodate from 30 to 40 chicks, £4 1s.; penetrated, 6s.; three outside nests, 12s. 6d. Carriage paid and less 5 per cent. S.P.B.A.

**DAIRY SHOW, Oct. 17, 18, 19, 20. STAND 185**  
South Gallery.

**C. A. SYDENHAM HANNAFORD, Hamworthy Junction,**  
M.S.P.B.A., **DORSET.**

The Leading POULTRY APPLIANCE Maker in this Country FOR SOUND GOODS.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulas, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MATERIALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 1921 PULLETS 6/- each.

WHITE LEGHORNS, proved L<sub>2</sub> birds, which will make excellent Breeders next season. Only few left. Carriage Paid Six

### STOCK COCKERELS.

BLACK and WHITE LEGHORNS, April hatched, from L<sub>2</sub> stock. 10/6 and 11/- each. Carriage Paid.

### 1922 PULLETS.

A Limited Number of WHITE LEGHORNS, from 17/6 each.

Full Particulars on request.

Approval. Orates to be Returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.

QUEENBOROUGH, near LEICESTER

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A LITTLE IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

### IZAL FLUID.

8/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

### IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

was a daughter of hen 12. In other words, of the five individuals laying 180 eggs or better, four were daughters of No. 12.

### CONCLUSIONS.

The results so far secured seem to justify the following conclusions:—

1. A poorly balanced ration fed to young chickens not only reduced the rate of gain in live weight but also reduced, at least for the first year, the mature weight of the females.

2. A poorly balanced ration fed to young chicks increased the age of the pullets before reaching sexual maturity, or in other words before laying the first egg.

3. A poorly balanced ration fed to young chicks materially reduced the number of eggs laid by the pullets during the first laying season.

4. A poorly balanced ration fed to young chicks apparently reduced somewhat the average egg weight of the mature females.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### IMPORTANT NOTICE.

Members are reminded that the financial year of the Association terminates on August 31st, and all subscriptions are due as from that date.

The subscription is a minimum one of 5s. per annum.

The names of members whose subscription is unpaid by October 15th, cannot be inserted in the Annual Register.

The Annual Register will be published in December, and a copy will be sent to each member whose subscription is paid.

Members who desire to register their birds, should apply to Mr. H. Mudie-Draper, Revesby, Holmfield Road, Leicester, for registration forms.

All applications for advertisement space in the Register should be addressed to Mr. F. J. Churchyard, 94, Farncombe Street, Bermondsey, S.E.16.

Alterations or corrections of address should be sent to the Hon. Sec. as soon as possible.

Members who desire the S.P.B.A. Badge should send one shilling with their subscription.

### NEW BREEDS.

Mr. C. S. Roscoe writes in reference to my article on New Breeds which appeared a week or two ago in "Eggs":—"In your leading article on New Breeds, among the breeds mentioned are Australian Black Orpingtons. Being a breeder of these birds and having followed the Australian Poultry News very carefully on matters relating to these birds in Australia, one can hardly say they are a breed which holds out no great possibilities, seeing that at all the great laying competitions this breed practically predominates and leads the field."

If Mr. Roscoe reads my article through again, he will see that I did not say this breed or any of the new breeds "hold out no great possibilities." What I did say was: "Not one of them possess greater economic qualities than our Rhode Island Reds, Black or White Leghorns or Light Sussex, not one of them supplies the 'long felt want,' and to that statement I stick.

He speaks of the wonderful records put up at the Australian Laying Tests; admittedly they have been wonderful, but let us look at things in their true perspective and not judge a breed by records made in laying tests. At the Hawkesbury Test, which is the premier test of Australia, the winning pen of Black Orpingtons, of the Australorp type, laid 1,457 eggs. Three-fourths of the entries in the heavy section were Black Orpingtons. The worst pen (also of this breed) did not lay half this number of eggs, and there were individual records of 11, 14, 25, 69, 74, 89, while one bird did not lay at all.

The winning pen of White Leghorns laid 1,480 eggs; with the exception of a pen of Minorcas, no other light breed was represented. The most remarkable of all was that of a pen of EXHIBITION BLACK ORPINGTONS, which laid 1,370 eggs, with an average weight of 28½ ozs. This pen included the hen with the highest individual record—304 eggs.

In New Zealand, as Mr. Fielding told us when describing his recent visit, the Exhibition type of Black Orpington is the winning type in the laying tests and the most popular. The difference between the two is that the Australorp or the type which we are importing has Croad Langshan blood in its make-up, while the exhibition breeders used the Black Cochins. The team record is still held by the Croad Langshan in Australia.

Mr. Roscoe speaks of the success of the breed in the utility shows against all heavy breeds, but this does nothing to prove their economic qualities, as compared with other breeds. I would not give two-pence for such a comparison.

However, all this is beside the question, we know the Australorp to be a good breed, now we want it tested in our English climate; let us see how it compares with our Light Sussex, Rhode Island Reds and White Wyandottes. We are told that some of the best birds from Australia have been imported. Seven pens I believe have been entered in the National Test; let us wait and see. When I spoke of a breed supplying a "long-felt want" I was thinking of the Commercial Egg Farmer, and of a dual purpose breed which would solve the surplus cockerel problem—the Australorp is not the breed for the purpose. He speaks of their breeding true to type; I do not doubt it, but what as to the proposal of Capt. Pierson-Webber of breeding them white in lobe? After 32 years of pedigree breeding surely there is no white in lobe; if so, it smacks suspiciously of the recent introduction of Minorca blood. If I might offer one word of advice to Australorp specialists, it would be: "Let your breed make its way on its merits," good wine needs no bush. I have seen more than one breed go under after a vigorous press campaign, exaggerating its qualities.



## GLOUCESTERSHIRE LAYING TEST SOCIETY.

Owing to the interest shown in the present Egg Laying Test it was decided at a recent meeting of the above Society to arrange a Duck Test to commence on 1st November next. The Test will run for 48 weeks, and comprise 1 open section (any breed). The entrance fee has been fixed at 7s. 6d. per duck or 30s. per pen of 4 ducks. A promise of a Silver Cup has already been made in connection with the Test. Further particulars may be obtained from Mr. H. S. Wright, Hon. Secretary, Shire Hall, Gloucester.

### OWNER WANTED.

Mr. J. W. Smith writes to say: "An entry has been received for the Middlesex County Laying Test of a Sussex, Ancona, and Rhode Island Red, without any name or address, the post-mark was obliterated; will the writer communicate with Mr. Smith, Hearne House, Hayes, Middlesex.

### ALTRINCHAM SHOW.

The Altrincham and District Utility Poultry Society are holding their Annual Show in the Market Hall, Altrincham, on October 28th. There will be 16 classes for poultry and three for eggs. It is confined to members only, and Mr. F. Walsh will judge. There will be the Society's Silver Challenge Cup for best bird in show, a silver cup to be won outright for the best breeding pen, presented by the Chairman, Mr. Holden; a silver spoon, presented by Mrs. Arnold; and several other prizes in addition to the silver medals presented by the Altrincham Agricultural Society. The Hon. Sec. is Mr. J. L. Harrington, Beech House, Barrington Road, Altrincham.

### BRISTOL, BATH AND DISTRICT BRANCH.

This Branch held a very successful meeting on the 14th of September, the speaker being Mr. Tom Newman.

Mr. Newman first of all gave a brief description of the work of the Association, and outlined its growth from a very humble origin.

The rapidity of the growth is conclusive proof that good work is being done, and needs no further comment, at the same time it reflects a credit on the originators, of which they may feel justly proud.

Mr. Newman then proceeded with his paper on Feeding, which contained many re-arranged formulas and the introduction of new ingredients, explanations being given why some had been eliminated and others introduced. His subject was a wide one for so short a period, and his talk was made none the easier by the excellent attendance of both beginners and those with experience.

But, as was expected, the paper contained tips for everyone. Questions followed, to which Mr. Newman replied and proved of great interest. Whilst on the matter of questions it transpires that some

members had a store they wished to ask, but for some reason they were not forthcoming. Perhaps due to shyness or the idea that their question would, in the minds of some of the more experienced, appear so absurdly simple that it was not worth asking.

This surely is disposing of the aims and objects of the Association too lightly, so it is earnestly requested that all members will bring their troubles for someone else to clear up.

That is what we want to keep us going. It must be borne in mind that at times a great deal can be learnt from the questions applied to a lecture, as well as from the lecture itself.

The meeting closed with a hearty vote of thanks to Mr. Newman, who promised to visit the Branch again, to which we shall all look forward.

The next meeting takes place on October 13th at the Y.M.C.A., Broad Street, Bath, at 6.45 sharp. Committee meeting at 6 p.m.

Mr. L. G. Price, County Instructor for Gloucestershire, will lecture on "Selection of Layers by the Handling System."

Bath Members are asked to advertise the meeting as widely as possible. F. T. Elkington (Hon. Sec.), 1, Springfield Avenue, Shirehampton, Bristol.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

F. S. (East Peckham). For hatching early birds for table I would not run Indian Game with Light Sussex hens. Houdans or Faverolles would be better as you want a bird which matures early, and the Game is slow in comparison with these two. It is a better mating for the Christmas market as a bigger bird is required. This answers both of your questions.

E. R. (Eltham). The dry mash hoppers should be opened at 9 o'clock now, previous to that, say at

8, give one handful of grain between every three birds in the litter, and an hour before they perch give another handful of grain between every two birds in the litter. In other respects your programme is correct.

H. W. (Mile End). If the birds are "stuck" in the moult add  $\frac{1}{2}$  lb. crushed linseed to every 10 lbs. of mash. If you use a box hopper one 2 ft. long would be sufficient for 12 birds. The correct amount of grain is  $1\frac{1}{2}$  ozs. per bird. Your experience with lighting is that of every one else, the birds produce the extra eggs and slack off in the spring. I cannot "make any alteration so that they should keep on." As to the Hogan system, I can only express the opinion that I have expressed before, it is very useful in culling but not in selection. I cannot trace a previous letter of yours.

F. F. (Kirkham). We cannot reply to letters by post unless the fee of 2s. 6d. is enclosed, except to members of the S.P.B.A. A good dry mash from the ingredients you give would be, from now through the winter, 2 lbs. of Bran, 4 Middlings, 1 S.G.O., 1 Gluten Meal,  $\frac{1}{2}$  each Dried Yeast and Fish or Meat Meal. For a wet mash cut out the bran and add another pound of Middlings. Use Maize Germ in place of Gluten Meal for breeders.

H. R. B. (Paignton). It is certainly puzzling that these pullets, hatched from hens which laid eggs averaging  $2\frac{1}{2}$  ozs., should only be laying eggs weighing 1.3-8 ozs., especially as the dams were mated to a male from a big egg hen. You say they are well developed and did not start to lay until they were five months old. I can only arrive at the conclusion that they are in rather too fine a condition. You would do well to handle them and ascertain if it is so. In that event the best thing to do would be to feed a more concentrated mash. You may be quite certain that dry mash does not cause small eggs, unless the birds are kept short of water. We could not afford to feed dry mash on our big farms if a small egg was the result. As to the leg colour that your neighbour's pullets' legs are a brighter yellow than yours is not due to his feeding biscuit meal. Leg colour is often a matter of condition, and if his birds are as I suspect carrying a little more flesh than yours, that would account for it.

S. A. W. (East Dereham). Give your intensively kept birds the following dry mash, which should be in hoppers always before them: 3 lbs. Bran, 4 lbs. Supers, 1 each Maize Germ, Sussex Ground Oats, Fish or Meat Meal. Give two parts Wheat and one Oats in the litter, but don't exceed one and half ozs. per head per day. Wheat tailings would be better than the best wheat. But you must feed the best oats.

A. S. H. (Churt). The price of Mr. Toovey's book is 6s. It can be obtained at the bookstalls; the publishers are Crosby, Lockwood and Sons.

F. S. (Croydon). Select your most forward pullets, look for those with a prominent and bright eye, well-developed lobes, wattles and comb, short beak, close feathered, good width across the saddle, tails carried high, and good capacity; i.e., the distance between the pelvic and end of breast bone. (2) I have not a design for a hopper, but could you not make the box hopper described in "Eggs" of June 7th. If you have not a copy of that issue I will send it you. Thanks for your appreciation of "Eggs."

J. S. (Pickering). The mash would be improved if you added another half measure of Fish Meal; it is rather deficient in protein at present. I think you wrote me some time ago in reference to an unsatisfactory deal you had re a house with a firm in Derbyshire. I could not reply to your letter as you did not give any address. This firm is one at whose hands a couple of years ago hundreds of poultry keepers suffered; we exposed them in "Eggs." Those who sent them money for houses often only got the door or the roof. Some were not so fortunate as that. They were called Huts and Bungalows, Ltd., then.

H. W. P. (Ilminster). The sample of Ground Oats you send is a very good one. (2) In the mash advised for layers, the Bran should be 2 lbs. instead of three if the grain is fed merely as a scratch feed. (3) I would not put the cock with the pullets now as they are not mature enough, that would be a great mistake; he should not run with them until the end of January. Haven't you two or three hens you can run him with for the time being.

C. P. R. (Ellenborough). If the breeder has told you that the cockerels from this special pen have crooked breasts, and that they are soft-boned, you should not have them on any account. This is inherited trouble, and I should call it a sign of degeneration. It is due to a prolific layer eliminating more time than she can assimilate, and it will result in weakly progeny. I know a case where male of this description bred a very high percentage of pullets with crooked breast bones, while sisters of the same hens mated to another cockerel bred all normal stock, the conditions under which both lots were reared were exactly similar.

G. H. G. (Yateley). You could not make a greater mistake than to run the March cockerel with hens because he is sexually so forward. All the more reason why you should keep him away from the hens, he is far more unlikely to attain size with them than he is when he is away from them. All the management he requires is to be kept away from the hens. The mash has been tried and proved most satisfactory. Any corn merchant would supply you with linseed—the crushed is the best.

B. F. W. (Portishead). If you want to breed cockerels for future matings, you must select those hens which have the best records, consistent with

stamina, size, and size of egg. Assuming you have these latter, select those hens which have started with a good winter record and have a good sequence—that is to say, have started by laying 4 eggs right off the reel, then missed a day and then laid another four; it is useless to breed cockerels from birds which lay 2 days and then miss a day. It is not wasteful to eliminate these heavy layers if they have not the qualities you want, you have only just started and you will realise the value of having only the best stock birds in a couple of years. You can only transmit size and stamina from the hens which possess it. If he is from a good dam I should mate your January cockerel to your two best hens. It would not be wise to use the cock for this purpose, as his sons would be too nearly related for future matings.

A. P. (Oakenshaw). I am sorry the cockerel died before you could try the treatment, but it was a long-standing case. It is a pity you did not write before, as in the early stages I think the treatment would have been effectual. (2) The colour of the Rhode Island Red should be a rich deep red, as even as possible, when the wing is open the flight feathers should be black and the secondaries red, the tail should be black. There should be no ticking in the neck hackle of the male. There are plenty of coloured plates to be had. I think you could get them from the Editors of "Feathered World." The Australorp cockerel would make a better cross with the Red than your other breeds.

(Continued on Page 193).

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

Carried Forward	...	...	£730 11s. 10d.
			s. d.
H. C. Gray	...	...	5 0
J. H. P. Berthon	...	...	5 0
A. McCombie	...	...	5 0
"Credit of a Member"	...	...	2 6
P. J. Godfrey	...	...	10 0
Mrs. M. E. Rowe	...	...	2 6
T. Wass	...	...	2 6
Miss Bessie Findley	...	...	2 6
Colonel and Mrs. Birdwood	...	...	21 0
Jas. A. Whitehead	...	...	1 6
Jas. R. Goldstraw	...	...	2 6
A. E. Trigg	...	...	2 6
Tom Lord	...	...	1 0
Miss E. G. Jones	...	...	5 0
Jas. Bishop	...	...	2 0
Mrs. Esplin	...	...	2 4
Mr. and Mrs. E. N. G. Harper	...	...	40 0
Douglas Allport	...	...	2 4
L. H. Stone	...	...	2 6
D. W. Taylor	...	...	5 0
L. Oldroyd	...	...	2 0
George Travis	...	...	2 6

			s. d.
S. Fish	...	...	2 6
R. Jolly	...	...	2 4
F. T. Elkington	...	...	2 6
Miss E. M. Bennett	...	...	2 6
Miss M. K. Friend	...	...	1 10
C. W. Scott	...	...	5 0
J. Kinross	...	...	2 6
E. Piper	...	...	5 0
B. White	...	...	2 6
J. Taylor	...	...	3 0
"One Time Member"	...	...	3 0
A. W. Gosnell	...	...	5 0
F. G. McIntosh	...	...	5 0
Capt. C. H. Leaver	...	...	10 0
Capt. J. Prentice	...	...	5 0
Mrs. E. H. Gordon	...	...	2 6
W. C. Searle (3rd Donation)	...	...	2 6
G. E. Jackson	...	...	2 6
T. Abbott	...	...	2 6
Thomas Parker	...	...	2 6
Total	...	...	£740 9 2

## Correspondence.

### MARKING OF FOREIGN EGGS.

To the Editor of "Eggs."

Sir,—The letter of "A. C. C. S." in your issue of 27th September on "Marking of Foreign Eggs" is an excellent piece of imaginative writing, and, of course, has no relation to the facts, as imaginative writing should.

The case for "Marking Foreign Eggs" rests simply on (1) That the producer of eggs should not be robbed of his profit by unfair competition. (2) That the consumer shall get exactly what he or she pays for.

I do not know of any Egg Farmer who complains of fair competition, but I know that all object to Danish, Irish, Algerian, Egyptian and Chinese, being sold as "English New Laid." I know that every consumer prefers to get what he or she pays for. The only persons who object to eggs being marked are the Wholesale and Retail sellers of eggs; it does not require a vivid imagination to discover their objection. In this connection I may say that I was on the Poultry Advisory Committee some years ago, and this question of marking foreign eggs arose; the only objections came from people interested in selling eggs. Very strange. But not so strange, if, in spite of the alleged superiority of the Foreign Egg to the Home Product, it is impossible to find an English New Laid as being sold as Danish or Chinese.

If the foreign egg is so superior, why are English eggs not sold as Foreign. The retailer who turns an honest penny where he can would not miss this chance if it existed.

If excellent Foreign meat from the Dominions has to be labelled, why should Foreign eggs escape?

There need not be any more difficulty as regards enforcing the Act than there is with meat.

The concluding paragraph of your correspondent's letter is a real "tour de force." He suggests that the control of our markets will be assured when we capture the Foreign Market. Perhaps A. C. C. S. has not enjoyed the pleasure of living in China, Algeria, or any of those other countries; if anyone is prepared to live as the producers of those countries do live, and can get labour and material as cheaply, and have practically no taxation direct or indirect, no doubt then eggs will be as cheaply produced, but there will be no market for the produce.

The egg producer wants only that the dishonest seller of eggs shall not have it in his power to sell as "English New Laid Eggs," those of Foreign Origin; to the detriment of the Home Industry, and to the robbery of the consumer.

The Seller of Eggs alone profits by not marking Foreign Eggs.

Yours faithfully,

S. G. HANSON.

To the Editor of "Eggs."

Sir,—With reference to Mr. Carter's article on Houses of Felt, there is an objection to the sloping glass suggested, as I find that dust settles on glass inclined louvre fashion, so that it requires cleaning every two or three days—it is quite a nuisance. Otherwise it is very satisfactory from the ventilation point of view.

To prevent rain and snow entering, an overlap of two horizontal to one vertical I find to be necessary and sufficient. That is if the outer edge of upper louvre is 12 in. outside the inner edge of the one below it may safely be kept 6 in. above it.

On a lean-to roof, if the back part of roof is stopped, say 2½ ft. from front of house, and hood formed apex fashion to overlap it a few inches, with 2 in. air space between, no dead air seems to hang in it.

Yours faithfully,

C. W. SCOTT.

Marsh Croft Poultry Farm,

Lytchett Matravers,

Dorset.

18.8.22.

Dear Mr. Newman,—

Regarding Mr. Meeking's article in "Eggs," dated July 19th, 1922, we should like to mention one or two points.

Economy, as well as other desired results, undoubtedly begins with the eggs for incubation. Good storage taken for granted, the eggs from some hens produce nothing but loss, whereas others will give up to 100 per cent. of good rearable chicks in successive

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

hatches. The undesirables can very easily be eliminated with the aid of the trap-nest. All eggs should be marked when taken from the nest with the numbers of the birds laying them, and dated. We regard the date as important, because should the breeder be forced to keep eggs up to a fortnight or so, as is really necessary sometimes, the eggs laid at the end of a good sequence, although fresher, may be of poorer quality, and he can discard them, or otherwise, according to his experience of his birds. With heavy breeds we seldom use the last six or eight eggs of a hen going broody.

The next step is the preparation of an Incubator Chart. We set to work in January to evolve a list of headings on which we desired information, and the enclosed chart is a specimen of the result. By its successive use with all hatches we raised our percentage from, roughly, 40 per cent. at the beginning of the season to 87 per cent. later on. No doubt other factors came into play in attaining the last percentage (such as the use of "Marmite" in the drinking water of the breeding stock, and the solution of the moisture problem in our new incubator house, about which we wrote you at the time), but that the elimination of the eggs from those hens which proved of poor hatchability, played an important part we have not the slightest doubt. You are at liberty to publish the chart if you think worth while.

We followed this procedure right through the season, and all pedigree breeders will find it pay, because, besides the customer's point of view in getting better stock, the breeder reaps the benefit in a manner that needs no explanation. This is true economy.

We endorse the remarks concerning the rearing unit. Hoovers of the Golden type, or the natural method, are undoubtedly the best for the pedigree breeder, at least that is our opinion. We consider, however, that they are marketed at an uneconomic figure, and this year we designed our own and had them made up locally at a little more than half the usual prices.

Pursuing economy further, we think Mr. Meekings has gone to the limit when he puts 100 laying pullets into a house 3½ feet per bird, assuming all floor space is clear; seventy-five birds would be nearer the mark. We also consider the acreage of the pens too small. If our breeding stock is to be full of vigour and strength, and presumably the pullets placed in these houses will eventually be used as breeding stock, they must have more room than that stated. On this farm we give 4½ feet per bird in the houses, and 25 square yards per bird in the runs, besides growing green foods for winter in addition. This "wasteful" policy of ours will, we are sure, prove to be more economical in the long run.

We thank Mr. Meekings for his article.

Yours faithfully,

RUSSELL & FAGG, M.S.P.B.A.

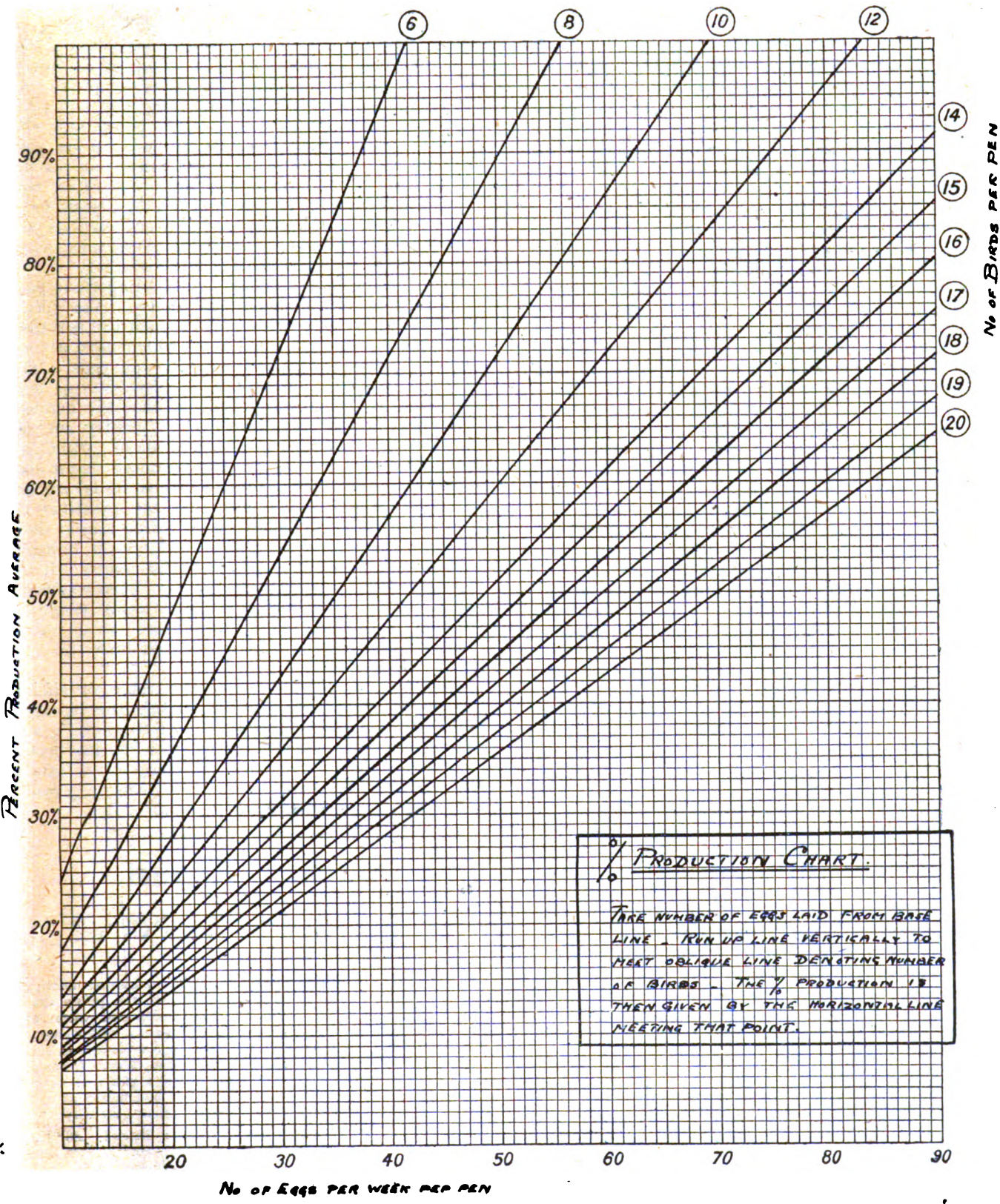


**MARSH CROFT POULTRY FARM,  
LYTCHETT MATRAVERS, DORSET.**

Make of Machine	... ..	Glevum (150).
Breed	... ..	Rhode Island Reds, "C" Pen, Crowley; "B" Pen, Boucher-Crowley.
Number of Eggs on Tray	... ..	174.
Date Eggs set	... ..	19-3-22. 10 p.m.
Date First Test	... ..	29-3-22.
Result First Test	... ..	5 Clear, 2 Broken yolks, 2 Stuck Germs, 2 Dead Germs, 2 Broken.
Date Second Test	... ..	Not carried out.
Result Second Test	... ..	
Final Result Summarised:		
Dead in Shell	... ..	8.
Dead Germs	... ..	5.
Malformations killed	... ..	None.
Weakly Chicks killed	... ..	8.
Percentage hatched	... ..	84.9 per cent.
Temperature, First Week	... ..	103½ to 104½ degrees.
Temperature, Second Week	... ..	103½ to 104½ degrees.
Temperature, Third Week	... ..	103½ to 104½ degrees. Rose to 105 16th day; 107, 17th day; 105, 20th day. Hatched at 103.
Ventilation and Moisture	... ..	A.. Felts whole period. Full moisture whole period and wet floor.
Number Daily Turns	... ..	Five. Self-turning.
Incubator House Temperature	... ..	60 to 62 degrees whole period.
Weather	... ..	1st, dull, cold 2nd, fine, cold 3rd, cold and windy; 4th, sunny and cold; 5th to 11th, fine and cold; 12th, snow and cold; 13th, snow; 14th, stormy and cold; 15th, wet and cold; 16th to 18th, fine; 19th, wet and cold; 20th, fine; 21st day, stormy.

**RECORD OF EGGS SET.**

Hen No	No. of Eggs.	Result, 1st Test.	Result, 2nd Test.	Dead Germs.	Dead in Shell.	Non- Hatched.	Per Cent. Hatched.	Remarks.
<b>B Pen.</b>								
37	6					6	100	
38	6					6	100	
39	5				1	4	80	Marmite used in drinking water of both pens.
40	4				2	2	50	
41	6					6	100	
42	2					2	100	
43	2					2	100	
44	7					7	100	
45	4					4	100	
46	3				1	2	66½	Mash: Tom Newman's Formula, April 25.1.22.
47	4					4	100	
48	2					2	100	
49	7			1	1	5	71½	
50	1					1	100	
51	3	1 Dead G.			1		33½	High Temperature on 17th day apparently not dangerous.
52	1					1	100	
62	3	1 Broken		1		1	33½	
017	5	1 Clear				3	60	
		1 B. yolk						
018	7	1 B. yolk				6	86	
Total	78	4 (1 B.)		2	6	46	88.3	
<b>C Pen.</b>								
54	4					4	100	
55	3	1 Clear				2	66½	
56	10					10	100	No serious failure in cases of long storage.
61	7	1 Clear				6	86	
63	3	1 Clear				2	66½	
64	6	1 D.G.				5	83½	
65	5				1	4	80	Moisture from beginning probably beneficial at proper room temperature.
66	6	1 Broken				5	100	
67	13				1	12	92	
68	1					1	100	
69	2			2				
70	11					11	100	Clearance of dead germs not essential.
71	6	1 Clear				5	83½	
72	8			1		7	87½	
73	5					5	100	
74	4					4	100	
75	2	2 S. G.						
Total	96	7 (1 B.)		3	2	83	86.5	
G. Total	174	11 (2 B.)		5	8	149	84.9	





## A NEW TYPE IN POULTRY. CAN WE GET A UTILITY EXHIBITION BIRD?

Speaking before the pupils and staff of "Heaslands" Poultry Farm, Mr. E. Bostock-Smith's establishment at Haywards Heath, Mr. J. Raine, the President of the newly-formed British Black Leghorn Club, said it was his belief that before long the demand in this country would be for a bird in some of the common varieties which will lay a good number of eggs and be of a type fit for exhibition. The Briton is naturally a sportsman, and he does like to have birds and animals which he is proud to enter in Shows with a chance of winning prizes.

Mr. Raine has had many years experience of poultry in this country and America, and he believes that in the near future it will be possible for poultry farms to pay their way and make a good living for the owner, the same as it is done in America. There one may see many commercial egg farms with their 3,000 layers, and these are really paying concerns. There is no reason why in this country the same thing should not be done, and at the present time there is quite a good opening.

In contrast to the big commercial egg farms, Mr. Raine referred to the large number of people which we shall always have with us, who keep a small number of birds in their backyard.

In between these two classes, the commercial egg farmer and the backyarder, there was an enormous number of people who had gone into the poultry business during the last few years, who had a small amount of money and wanted to eke that out and make a living with poultry. Just after the War they made a good thing out of it while prices were good, but now they are down what are these poor people going to do. The position they are in is that they have not enough birds to make a living. A great number have had to go out and an enormous amount of good money has been thrown away.

From the beginning, the speaker said, it was his own conviction that a way of helping this large class of people was in the production of a dual type of bird on the lines of utility and exhibition. There are birds which can be made first-class utility poultry and at the same time be useful for exhibition; such birds as Black Leghorns, White Leghorns, and White Wyandottes. A number of breeders in this country have been breeding the White Wyandotte on these lines, and the speaker said he quite expected to see in two or three years' time a bird which is both a good utility and exhibition type.

The Rhode Island Red is also being bred to lay a good number of eggs and to be worth showing.

At the present time Utility Shows are most uninteresting affairs, and people will not go to them. It is impossible for anyone by looking at the winners to tell why they won, when there are other birds which are apparently far better at any rate to look at, and the speaker suggested that it would make it more interesting if score cards were attached to the winning pens.

## THE BLACK LEGHORN.

A short time ago a number of people came together and a start was made on the Black Leghorn. The standard was drawn up and has now been fixed, so that in the course of a few years it should be possible to get a Black Leghorn which is tip-top on exhibition point and at the same time tip-top as egg producer.

This is the first attempt to bring out a Utility Specialist Club which will combine exhibition with its utility qualities, and the speaker said he was sure that for the large class of people who come in between the big egg farmers and the backyarders, the type of bird is going to pay best. Two Classes have been granted at Olympia, and the expectations are that a good start will be made on these lines.

## HOW FOODS AFFECT POULTRY.

The speaker next touched on the important part played by feeding in regard to poultry. Very little is known to-day about Vitamines beyond the fact that it is known there are some foods which have a very high nutritious value, such as milk and eggs. On these mysterious substances depend energy and efficiency, and it is firmly believed that the number of diseases which have developed in poultry are the result in the beginning of a lack of them. Birds on unlimited range are undoubtedly far more robust and vigorous. It is most noticeable when birds are let out after being confined, how they eat quantities of soil, and particularly before the breeding season they feed very largely on the different kinds of mineral substances which they get from the earth. It is unwise to breed from birds which have been confined, and therefore been unable to get these essential minerals. If we only knew more about these minerals, the speaker said, we should know how to deal with diseases.

Answering a question as to the value of alfalfa and clover compared with greenstuff, the speaker said that one cannot do better than feed young green food, particularly the tops of young sprouting grass, but when it gets old it loses practically all its value. The question is what to provide when growing vegetables are unobtainable.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, SEPTEMBER 29th, 1922.

**GRAIN AND FEEDING STUFFS.**—The moderate offerings of English wheat are in rather better demand and prices again show a harder tendency. Spot supplies of imported wheat are small and dearer. English feeding barley meets a better enquiry at more money, while home-grown oats are also dearer in some cases. Imported oats realise about last week's prices. Argentine maize realises recent values but American is scarce and dearer. A fair demand is reported for millers' offals and meals at about late rates, but oilcakes attract little attention generally.

**MILLERS' OFFALS.**—Bran (British): Bristol, £6 13s.; Hull, £5 17s.; Liverpool, £6 5s.; London, £6. Broad Bran: Hull, £7 2s.; London, £7 10s. Fine Middlings (Imported): London, £9. Coarse Middlings (British): Bristol, £9 15s.; Hull, £8 17s.; Liverpool, £9; London, £8 5s. Pollards (Imported): Hull, £6 7s.; London, £6 7s. Rice Bran: Bristol, £8; Liverpool, £7 5s. **MEAL.**—Barley Meal: Bristol, £11; Hull, £10 15s.; London, £11. Maize Meal: Bristol, £10; Hull, £9 15s.; Liverpool, £9 10s. Maize Meal (S. African): Liver-

ool, 48 15s. Maize Germ Meal: Bristol, 410 5s.; Hull, 49 5s.; London, 49 5s. Maize Gluten Feed: London, 49.

#### EGGS AND DEAD POULTRY.

Eggs generally record a further advance in price. Week-end prices per 120: English, 26s. to 27s.; Irish, 23s. to 24s.; Dutch, all brown, 25s. to 26s.; Danish, 18lb., 24s. to 25s.

#### EGGS.

Per Doz.—Ashford: First, 2s. 9d.; Second, 2s. 8d. Birmingham: First, 2s. 6d.; Second, 2s. 5d. Carlisle: First, 3s. 0d. Chelmsford: First, 2s. 11d.; Second, 2s. 7d. Denbigh: First, 2s. 10d.; Second, 2s. 9d. Derby: First, 2s. 4d. Dorchester: First, 3s. 0d. Exeter: First, 2s. 6d. Hereford: First, 2s. 6d. Hull: First, 2s. 4d. Ipswich: First, 2s. 9d.; Second, 2s. 6d. King's Lynn: First, 2s. 6d. Lincoln: First, 2s. 3d. Llandilo: First, 2s. 6d.; Second, 2s. 3d. Montgomery: First, 2s. 9d. Newport (Mon.): First, 2s. 8d.; Second, 2s. 6d. Norwich: First, 2s. 6d. Oswestry: First, 2s. 9d. Penzance: First, 2s. 2d.; Second, 2s. 0d. Salisbury: First, 2s. 9d.; Second, 2s. 8d. Shrewsbury: First, 3s. 0d.; Second, 2s. 9d. Skipton: First, 2s. 6d. Taunton: First, 2s. 4d. Truro: First, 2s. 3d. York: First, 3s. 0d.; Second, 2s. 9d.

#### FOWLS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 10d. Derby: First, 4s. 0d.; Second, 2s. 3d. Exeter: First, 1s. 9d.; Second, 1s. 6d. Hereford: First, 1s. 4d. Ipswich: First, 6s. 0d.; Second, 4s. 0d. Lincoln: First, 5s. 6d.; Second, 3s. 6d. Llandilo: First, 1s. 7d.; Second, 1s. 2d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, 7s. 3d.; Second, 5s. 0d. Shrewsbury: First, 5s. 0d.; Second, 4s. 0d. Truro: First, 1s. 7d. York: First, 5s. 0d.; Second, 4s. 0d.

#### DUCKS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 1s. 2d. Derby: First, 4s. 6d.; Second, 3s. 6d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 4d. Llandilo: First, 1s. 9d.; Second, 1s. 6d. Newport (Mon.): First, 1s. 9d. Shrewsbury: First, 6s. 0d.; Second, 5s. 0d. York: First, 6s. 0d.; Second, 4s. 6d.

\* Per Head.

#### APPLICANTS FOR MEMBERSHIP.

Fred. Jas. Garred, The Chalet Poultry Farm, Shootersway, Berkhamstead, Herts.  
Capt. H. L. Bangham, A.C.E., Caswell Road, Mumbles, Glam.  
Gubbins, J. L., "Carantock," Falmouth.  
Slow, Albert E., Windermere, Branksome Avenue, Stanford-le-Hope, Essex.  
Maddison, Miss F. A., 52, Birchfield Road, Widnes.  
Cracknell, J. Gibson, Lowcop, Bridstow, Herefordshire.  
Whitehead, J. A. W., Taddeworth Fold, Uppermill, Nr. Oldham.  
Clarke, Miss M., The Stud Farm, Shenton, Nuneaton.  
Watson, William, Bogside, Ochiltree, Ayrshire.  
Kemp, E. A., Boyak House, Elham, Surrey.  
Thomas, Miss H. T., Derwent House, Weston, Bath.  
Gray, Eustace, Gray's Poultry Farm, Waterside, Chesham, Bucks.  
Bazley, T. H., East Wantley, Storrington, Sussex.  
Watson, Ernest R., Elm Cottage, South Green, Billericay.  
Fenton, H., 67, Old Lane, Higher Openshaw, Manchester.  
Winthrop, Mrs. F. G., Bankwood, Charing, Kent.  
Jones, A. F., Netholme P.F., Carterton, Claxfield, Oxon.  
Simson, Miss D. L., Memphis, 85, Beaconsfield Villas, Brighton.  
Stocker, Maj. Edward Gaved, Cuby House, Grampound Road, Tregoney.  
Williams, Richard J., Fir Tree P.F., Bishop's Waltham, Hants.  
Potton, G. W., 14, Friars Street, Shoburyness.  
Downsbrough, H., Denholme, Nr. Bradford, Yorks.  
Ford, Miss Mildred E., Belvedere Manor, Nempnett Chew, Stoke, Som.  
Smith, R., Queen St. Granaries, Hemel Hempstead, Berts.  
Ponsione, J. W., Tickenham, Nr. Bristol.  
Dawson, Robert, 2, Lotland Place, Inverness.  
F. Sharman, 88, Monks Orchard, Wickham Road, Croydon.

Allander Poultry Farm, Upper Dicker, Sussex.  
Crawley, A. H., 105, Lofting Road, Barnsbury, London, N.1.  
Barlee, R. H., Freewaters, Ickleford, Hitchin.  
Marr, Horace S., Manor Farm, Barton, Cambridge.  
Spaven, Arthur W., Sand-Hutton, York.  
Page, W. J., 49, Callcott Road, Brondesbury, N.W.6.  
Porteous, W., 9, Martin Bowes Road, Eltham, S.E.9.  
Jones, Sidney H., 26, Cobham Road, Wood Green, London, N.22.  
Lane, S. R., Brands Hill Poultry Farm, Colnbrook, Bucks.  
Fox, E. E., Postern View, Turnditch, Derbyshire.  
Parry, Mrs. L., 242, West Bromwich Road, Walsall.  
Snelgrove, Arthur, Station Poultry Farm, Scholar Green, Stoke-on-Trent.  
Stonehouse, Miss Joan, The Haynes, Corbridge-on-Tyne.  
Bromley, H. L., "Krendi," The Drive, Rickmansworth, Herts.  
Jordon, Mounteney S., 2b, Southfield Road, Ponders End, Enfield, Middlesex.  
Belton, C. W., 6, Lyminge Gardens, Wandsworth Common, London.  
Abbott, T., 4, Garsden Avenue, Higher White Birk, Small Holding, Blackburn.  
Parker, Thomas, 115, Peter Street, Blackburn.  
The Malcolm McInnes Utility Poultry Farm P. West 13, Gretna, Dumfriesshire, N.B.  
Green, F., Moore Isles, Reedley, Nr. Burnley.

#### POST-MORTEMS.

(Continued from Page 188).

Reply to E. Rusted.—Your bird had fluid in the bag round her heart, enlarged spleen and kidneys, congestion of intestine and liver, and a small patch of membrane, as is found in avian diphtheria, in her mouth. You had better look in the mouths of your other birds to see if any of them have similar patches. I wish you would take the temperature of the affected birds, or, at all events, tell me whether they feel hotter than the healthy ones. The fluid round the heart is more likely to be due to a chill, or to infection than to food. I did not find any disease germs. Re your mash. You say it consists of Middlings, Bran, S.G. Oats, and Fish Meal, but you don't say how much of each. You should not give more than 10 per cent. of Fish Meal. If you give more than that may be upsetting the birds.

Reply to R. C. B., Andover.—Your bird had a large, cheesy mass inside her gullet. This was eating into the wall and obstructing it. There was also congestion of the windpipe and of the kidneys. The cheesy matter was similar to that found in avian diphtheria, but there were no patches in the mouth.

Reply to A. Fellows.—Your bird had congestion of lungs and kidneys, a cold in her head, and a small patch of membrane (as is found in avian diphtheria) in her mouth. She had also small worms in her intestines. As she was so thirsty, I expect she had a high temperature. You had better look inside the mouths of your other birds to see if any of them have any patches, and, if they have, let me know. The right treatment for a bird with a high temperature is to put her into a warm place and feed her on bread and milk only.

Reply to "Locherew."—Your bird had tuberculosis of the liver, spleen, etc. You had better handle all your other birds, and isolate any that appear to be losing flesh, as suspicious cases.



# TIMBER! TIMBER! TIMBER!

## T. G. and B. Boards.

1in. x 5in. ...	13s. 0d.
2in. x 5in. ...	10s. 9d.
3in. x 5in. ...	9s. 3d.
4in. x 5in. ...	10s. 0d.
5in. x 4in. ...	7s. 3d.

Plywood (Birch).  
3 M/M 69in. x 39in. 10s

## Good Quality Battens.

3in. x 6in. ...	38s. 0d.
3in. x 3in. ...	17s. 6d.
3in. x 4in. ...	24s. 6d.
2in. x 3in. ...	12s. 0d.
2in. x 2in. ...	8s. 0d.
2in. x 4in. ...	15s. 0d.
1 1/2in. x 2in. ...	5s. 0d.
1in. x 2in. ...	4s. 3d.
3/4in. x 2in. ...	2s. 6d.

## Weather Boards.

2in. x 5in. ...	7s. 6d.
2in. x 4in. ...	6s. 0d.

## Sawn Boards.

1in. x 5in. ...	7s. 6d.
3in. x 5in. ...	8s. 9d.
1in. x 5in. ...	11s. 6d.

Spiking, 4d. per length extra.

## ANY SPECIFIED LENGTH CUT.

All Prices per 100 feet, carriage paid on orders over £2.  
Please Send Cash with order, and also state nearest railway station.  
Good Quality Roofing Felt in Rolls, 12 yards x 36in., at 6s. 3d. per roll.  
FOR A SQUARE DEAL. SEND YOUR ORDERS TO

# STANLEY BARNES & Co., Timber Merchants

Phone: 2183 CENTRAL. 67, Dale Street, LIVERPOOL.



## THE 1923.

## The Register and Year Book

OF THE

## Scientific Poultry Breeders' Association

Only a short time now remains before we go to press with the 1923 edition of the Annual Register. Those firms and individuals who have anything to sell to enthusiastic Poultry Keepers, who have already booked their space in this Register should not delay further, because only a limited amount of space available for advertisement now remains, and the closing date is 18th October.

A copy of the Year Book is sent to every Member of the Scientific Poultry Breeders' Association, each of whom is an endorsement for the best he can buy and will be money to indulge in his fancy. In order to a large number will be sold to Poultry Keepers throughout the country.

The rates are:—To MEMBERS: 1/4 0s. 0d.; Half Page, £2 5s. 0d.; Full Page, £1 8s. 0d.; Breeder's Card, 6s. 0d. NON-MEMBERS: One Page, £5; Half Page, £2 15s. 0d.; Quarter Page, £1 0d.; Breeder's Card, 8s. 0d.

Communications respecting advertisements should be addressed to Mr. F. Churchyard, 94, Farncombe Street, London, S.E.16.

## THE EVENT OF THE SEASON.

THE DAIRY SHOW NUMBER of "EGGS" will be published on Wednesday, 18th October, and will be on sale at the stand of the Scientific Poultry Breeders' Association at the show on that morning. Many thousands of extra copies will be published, in addition to its ordinary circulation, which is more than forty per cent. above the circulation of "EGGS" at the last Dairy Show.

It will be an enlarged edition, full of information and instructive and helpful articles by experts in the Poultry Industry.

If you have anything to sell to Poultry Keepers you should be represented in this issue.

The space allotted to advertisements will be limited, and we must receive them not later than 11th October.

The rates are:—Two pages, £17; One Page, £8 15s. 6d.; Half Page, £4 7s. 9d.; One Column (third of page), £2 18s. 6d.; Quarter Page, £2 4s. 0d.; Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; One Inch, 6s. 6d.

Lose no time in preparing your advertisement for

**The Dairy Show Number of "Eggs."**

## Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the Stock is housed. For maximum egg production the houses must be roomy, well-ventilated, drip and draught proof, and thoroughly stable even in the highest winds. Moreover, for operating on even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house.

but only in

## SLADE HOUSES

do you find them at a price which is economically sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter sections being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing anything of factory overheads the saving here will be obvious.

## SLADE

SYNDICATE, LIMITED,

(Directors: E. J. W. and M. W. Slade),

28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**DOUGHTON via NORWICH.**

**Rev. F. KENNEN, S.P.B.A.,**  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from  
m's—273-250 eggs. Sire's Dam, 255 eggs in  
pullet year,  
Pullets No. 50, winner of Special and 1st  
ize, Sept. 9th, 1922. Pen No. 1, headed  
Male from 250-240z. hen (Latham). Pen  
2, later hatched, but with special for-  
ward male. Orders now taken for Sittings,  
Olds, and Early Pullets and Cockerels.  
Prices and Records given on application.

**Miss HARDMAN,**  
Member, S.P.B.A. and N.U.P.S.,  
**KENT. DUNSFOLD, near GODALMING.**

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

**F. A. HULME.**  
Heathfield Commercial Egg Farms  
**HEATHFIELD, SUSSEX.**  
**WHITE LEGHORNS.**

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

**P. N. SHELLEY** S.P.B.A. and  
N.U.P.S.

Breeder of Utility Trap-nested  
**RHODE ISLAND REDS**

1922 Pullets, on point of lay, from 15/-  
the Manor House, **TITTENSOR, Stoke-on-Trent**

**WAKER BROOK POULTRY FARM,**

**WHITE LEGHORNS**  
**WHITE WYANDOTTES**

**DOUGHTON nr. PRESTON**

**MRS. SILVA JONES,**

Freewater, Ickleford, Hitchin.

**LIGHT SUSSEX. WHITE LEGHORNS.**

Rothschild-Leigh Strain. Tom Barron.

All Pullets Trap-nested.

**WHITE WYANDOTTES.**

**L. WILLIAMS.**  
Easton Poultry Farm,  
**GRANTHAM.**

Speciality:  
**STAMINA AND SIZE OF EGGS.**

**G. W. MILLER,**

Breeder of High Class Trap-Nested  
**RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**  
**LIGHT SUSSEX.**

Pullets, from 10/-, according to age.  
Inspection Invited.

**MILL VIEW POULTRY FARM,**  
**TENTERDEN, KENT.**  
Five Minutes High Halden Station.

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.  
White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPWAY POULTRY FARM,**  
**TORQUAY, SOUTH DEVON.**

**Coaley Poultry Farm,**  
**GLOUCESTERSHIRE. Est. 1894.**

White Wyandottes. Buff Orpingtons.  
White Leghorns. Light Sussex.  
Rhode Island Reds. Black Leghorns.  
Breeding Pens. Pullets. Cockerels.

**COALEY FAWN DUCKS** (1st at Bentley  
for Six Months).

**HOLMES and HOLMES,**

S.P.B.A., N.U.P.S., L.B.P.S.,

**T.A. FOXDELL, CHALFONT, ST. PETER'S.**  
Breeder of High-Class Pedigree Stock.  
White Wyandottes, White Leghorns.  
Light Sussex, Rhode Island Reds.  
"FOXDELL" Herd of Large Black Pigs.  
**LODGE FAEM, CHALFONT, ST. PETER'S,**  
**BERKS.**

Telephone: Chalfont St. Giles 54.

**MELLIN & SKURRAY,**

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I. Reds (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

**Mrs. CHARLES CARTWRIGHT,**

The Welland Valley Poultry Farm,  
Seaton, Uppingham, Rutland.  
1922 COCKERELS. See Register for Pen  
White Wyandottes. Prices from one guinea  
to three guineas. Also Light Sussex, Buff  
Rocks, Anconas, and White Leghorns.  
Stamina and Size of Egg a Speciality.  
Mated Pens for Sale.  
White Runners (Taylor's) and Roman Geese  
Pupils Thoroughly Trained.

**WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.**

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

**A. P. C. HOLDAWAY.**

**R. J. HUBBUCK,**

Member of S.P.B.A., N.U.P.S., and P.O.,  
Pinehurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

**The MISSES RANSFORD,**  
**White Leghorn Stud Farm**

All Birds Trap-Nested.  
All Birds on Free Range.

**PERSEVERANCE POULTRY FARM,**  
**PENSFORD, BRISTOL.**  
Pedigree Cockerel List Now Ready.

**Mrs. HARRY KENT,**

Stanbridge Poultry Farm, Court Lodge,  
Hove, Sussex.

Station: Pevensey or Bexhill.  
Exhibition of Pure-bred Trap-Nested  
Utility Poultry.  
**LIGHT SUSSEX.**  
**WHITE LEGHORNS.**  
**BLACK LEGHORNS.**

Speciality.—Three Months' Old Pullets from  
15s.  
Illustrated Catalogue Post Free.

**MISS ARGLES, N.U.P.S., B.C.**

Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years at  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.  
From 10/-, according to age and pen.

**ANSTEY POULTRY FARM,**  
**ALTON, HANTS.**

**Rev. G. E. CARNEGIE, S.P.B.A.,**

**NORTHBOROUGH, PETERBOROUGH.**

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.  
10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

**WALTER FOSTER,**

Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.  
Breeder of Pedigree Trap-nested Large  
Eggs.

White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.  
Cockerels and Pullets.

Breeding Stock of the Highest Class.  
Particulars upon Application.

## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... .. 9d. extra.

**DAY-OLD CHICKS** ... 1s. extra.

**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	4
6 " " " "	8
9 " " " "	12
12 " " " "	16

### FOR SALE. PULLETS.

**BUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

**WHITE WYANDOTTES**, 1921; splendid layers; 10s. each; approval; deposit with Editor.—Cowlishaw, Oak Lodge, Loudwater, Bucks.

Magnificent 1922 **LIGHT SUSSEX** Pullets, from L2 hens, by 267-egg sire, from 12s. 6d. each.—Douglas Ann, Old Thatch, Hellingly.

Pullets, 1922, thousand head, **R.I.R.'s** and **LEGHORNS**.—Stamp, full particulars, Longley, Ashwell, Herts.

Ten **WHITE WYANDOTTE** Pullets, February hatched; Cam, P. L. Johnson; from L2 birds; £1 each. Deposit.—Locke, The Priory, Frensham, Surrey. Deposit.

150 **WHITE LEGHORN** Pullets, 1922; sires from Priest and Shaw; April hatched; 15s. each; May, 12s. 6d. each; inspection invited. Approval. Deposit with Editor.—A. Cowlishaw, Oak Lodge, Loudwater, Bucks.

Cook's 270-egg (s.c.) **R.I.R.**; Cam's 290-egg **WHITE WYANDOTTES**, 1922 Pullets, 10s. 6d.; guaranteed good healthy birds.—Simmins, M.P.C., M.S.P.C., Heathfield, Sussex.

March hatched **W. LEGHORN** Pullets, ready for lay, from hens with records 228-248, sired by cockerel, from 288-egg hen; 25s. 6d. each. **WHITE WYANDOTTES**, April hatched (220-270); will lay during October; 21s. 6d. each; selected birds, 25s. **R.I. REDS**, March hatched, near laying; 21s. 6d. and 25s. each. Only limited numbers.—C. D. Cheesbrough, M.S.P.B.A., Carlton, Nottingham.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS**.—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; One Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. C and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach Mr. F. J. CHURCHYARD, 94, Farncombe St., London, S.E.16 by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers asked to make full use of same. When remitting direct to Editor on deposit the amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

Twelve **R.I. RED** Pullets, April hatched; well grown; 12s. 6d. each. On approval. Carriage paid.—Keith Scott, Brabourne Lees, Ashford, Kent.

Six Beautiful (s.c.) **R.I. RED** Pullets, February hatched, point of laying; Bostock Smith strain; 12s. 6d. each; guaranteed healthy birds. Overstocked.—Browning, S.P.B.A., St. Quentin Poultry Farm, Victoria Street, Whitstable.

Thirty-nine April hatched **WHITE LEGHORN** Pullets for sale. Cam's strain. Guaranteed bred from hens with a flock average of 204. Owner reluctantly compelled to sell as he is moving; 17s. 6d. each.—28, Cavendish Road, Bournemouth.

Twenty **LIGHT SUSSEX**, March hatched, 1922; Lister-Rothschild beautiful well-grown pullets; now laying; 16s. each. Thirty **R.I.R.**, May hatched, 1922, perfectly healthy stock, from dams with W.R. 56-72, by sires direct from E. C. Boucher, sons of his World's Record Hen No. 37 and Hen No. 48; only 10s. each to clear. Also a few "Off-Colour" **R.I.R.**, as above; hatched January-February; 16s. each.—Harold Hall, Wollaston Hall, Wellingborough.

Pullets. **LIGHT SUSSEX** (Rothschild-Crawshaw) seven months; 20s. each; £11 10s. doz. **R.I. REDS** (Measure's), 17s. 6d. each, £10 doz. Carriage paid.—Duke's Poultry Farm, Rudgwick, Sussex.

### HENS.

**WHITE WYANDOTTE** Hens, 100; Cam, Barron, and Latham strains; March, 1921, hatched; 6s. each, carriage paid. Approval.—W. F. Morris, Brook End Farm, Abberley, Worcester.

**LARGE EGG HENS**.—Ten White Leghorns (1921), surplus to requirements of 1923 breeding pens. P.R., 215-237, some still laying. All from 2½ dams over 200. 12s. each, or £5 the lot.—Dr. Menzies, Cheddleton, Staffs.

Padman **WHITE LEGHORNS**, hatched; fifty Hens, 8s. each. Approval. Washington, Pine Farm, Wokingham, Berks.

### COCKS AND COCKERELS.

Cockerels. **WHITE WYANDOTTE**, W.R. LEGHORNS, February and March hatched; 12s. 6d., 15s. Pedigrees on application. Harries, Moneysland Poultry Farm, Camley.

Stock Cockerels. Pure **WHITE LEGHORN** (Padman), March; 12s. 6d.; April, 12s. 4d. Francis, 102, Dunvegan Road, Epsom, S.E.9.

### Dr. BALDWIN'S DIRECT.

**WHITE WYANDOTTE** Cockerels, February and March hatched, bred from pair of tested parents and pens headed cockerels, bred from proved L2 birds; 21s. each, carriage paid; September and October. Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

**BLACK LEGHORN** Cockerels, March hatched; Margerison's special pen direct pedigree given; enquiries solicited.—J. Williams, M.S.P.B.A., 82a, Cox Green, Dunsford, Bolton, Lancs.

**CROAD LANGSHAN** Cockerels; Bide Behrens, from trap-nested stock; January hatched; from 21s. Few January-February **WHITE LEGHORN** Cockerels, Padman, from 10s. 6d.—Clarke Hughes, Westbere, Camberbury.

Cockerels. Have you considered my recent advertisements offering **WHITE LEGHORNS**, **WYANDOTTES** and **R.I.R.**? They are rapidly going, so apply early if wanting Pedigree Birds.—Wheeler, "Hoots Hey," Great Sutton, Cheshire.

**LIGHT SUSSEX** Cockerel (Davidson) dam's record 264, £3 3s. **BLACK LEGHORN** Cockerel (Burn-Murdoch), dam's record 241, £1 1s. Carriage paid.—Mrs. Coldwell, Spring Grove, Milverton, Somerset.

A few **WHITE LEGHORN** Cockerels, for sale; April and May birds; dam's White Leghorns (1920), Padman strain; sire Padman Leghorn (1921), from dam of 52 winter and 943 year records. Prices from 7s. each. E. M. Turnbull, S.P.B.A., Lower Easing, Chelmsford.

Cockerels, **BLACK MENDELS** (Smart's), **BLACK LEGHORNS**, **BUFF ORPINGTON**. Write for particulars. — Button, "Annabelle," Long Eaton.

#### 1st IN WYANDOTTES.

100 per cent. First Grade Eggs. Single Bird Test, Cheshire Section; cockerels related to above from 24oz.-egg; heavy layers. — Captain Heselbine, Ropley.

### WHITE LEGHORN COCKERELS.

Hatched early February, from eggs supplied by Dr. Baldwin; fine healthy birds; reared on free range at 600ft.; 25s. each. — Capt. F. Pardoe, Bradley Court, Mitcheldean.

Pedigree **BROWN LEGHORNS**; 17s. 6d. each, carriage paid; beautiful birds. — Huddleston McKellar, Lingfield.

### EXCHEQUER LEGHORNS.

For Sale, splendid Cockerels, from Millar's Extra Special Pen direct. No finer stock can be bought of this coming breed; 10s. 6d. each. — J. J. Sutton, Bradmore, Wolverhampton.

### SPECIAL OFFER OF PEDIGREE COCKERELS.

**WHITE LEGHORN**, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 223-255; winter records 79-109. Average weight of eggs, 24-2 3/8oz. Only a few March and April hatched left; 10s. to 15s. each, carriage paid. — Bealing, Jesmond Dene, Burgess Street, Bassett, Southampton.

Stock Cockerels, **WHITE LEGHORNS**, from three different S.P.B.A. registered pens; all Barron strain; 17s. 6d. and 21s. Hampers charged, but returnable. Deposit, Editor. — E. Densham, Rogers Wood, Fawkham, Kent.

### S.P.B.A. TEST WINNERS.

Early February hatched Cockerels from above, 25s. each. Also February-March R.I.R. Cockerels, from pen consisting of grandson world's record layer and non-broody hens, with dam's records 245-286. Boucher's strain, 15s. each. Light Sussex Cockerels, March hatched, Lister-Tom Marks, 10s. 6d. each. All finest pedigree stock. Full particulars on request. Birds sent on approval, carriage paid. — D. and G. Gradon, M.S.P.B.A., Northwood P.F., Blackhill, co. Durham.

**R.I. RED Cockerels** (Golden's direct), **WHITE LEGHORNS**, from prolific hens; March, April hatched; from 7s. 6d. each, carriage paid. — Tansyknows Poultry Farm, Bothwell, Lanarkshire.

### PEDIGREE UTILITY COCKERELS.

**WHITE LEGHORNS** (Padman-Barron's), R.I.R.'s (Golden-Measures), **WYANDOTTES** (Barron's), **LIGHT SUSSEX** (Rothschild-Crawshaw); 7s. 6d.—15s.—Roundwood P.F., Charing, Kent.

**REV. SEYMOUR SHAW**, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes and Runner Ducks (all colours). Records to 269. Approval.

1921 **WHITE WYANDOTTE** Cockerels, dam's 269-287, sire 293, 24 ozs. eggs; 30s. each. Thirty, 1922, 20s. Approval. Carriage paid. — F. and T. Lumb, Fairfield, Hebden Bridge.

**RHODE ISLAND RED** (Newman), **WHITE LA BRESSE** (Hollams Chatterton); strong birds; February, March and April hatched. Prices from 10s.—J. Goosey, Blatchington Court, Seaford.

**BUFF ROCK** Cockerels, bred from stock supplied by J. H. Cooper, dam's record 225-238, February and March hatched, pedigree on application; 15s. to 30s. each. — Farrar, Brookroyd, Batley, Yorks.

**WHITE WYANDOTTE** Cockerels. A few good strain, for immediate disposal; room wanted; price and particulars on application. — Oakshield Poultry Farm, Monks' Orchard, Shirley, Croydon.

**COCKERELS**. — Stock Cockerels, R.I.R., from my Pens I. and II., hatched January-February, 1922, from dams with winter records 56-72, by sires direct from E. O. Boucher, sons of his World's Record Hen 37 and Hen 48 (306 eggs in 12 months); price 25s.—Harold Hall, Wollaston Hall, Wellingborough.

### BOUCHER'S DIRECT.

A few R.I.R. Cockerels, February hatched, from Pen A., ringed to mothers (310-285 eggs in pullet year); £2 2s. each. Carriage paid. — Stapleton "Sands," St. Brelades, Jersey.

### BANTAMS.

**TWELVE UTILITY** Buff Pekins, 5s. each. — Cross, 12, Calais Road, Burton-on-Trent.

Silver Spangled **HAMBORO'**, prize strain; two 1921 Cockerels; excellent for breeding; 5s. each. — Mrs. Gibson, Feering Bury, Kelvedon.

### APPLIANCES.

Tamlin's 100-EGG **INCUBATOR**, practically new; self-filling lamp; £6 10s. — Rhymes, M.S.P.B.A., Northway, Tewkesbury.

### "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. 1/2 pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend. — Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

### ROOFING FELTS

"Superfelt," Ashwell, Herts.

### WIRE NETTING

Best galvanised. British only; stamp list. — Superfelt, Ashwell, Herts.

### SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials. — Superfelt, Ashwell, Herts.

### GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

A Sample of the **MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests. — Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramaden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Puppi.

**FITTINGS and Felts** for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free. — Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

**30 STANDARD SIZE EGG BOXES**, English make, complete with divisions; some never used; 4s. 6d. each, f.o.r., or £6 the lot. — Miss Dora Seed, River Poultry Farm, King's Lynn.

### "ELECTRO-AUTOMATE."

Self-Generating Lamp for egg testing; no batteries; no refills required; 80s. each, post paid. — Clifford de Kussel, 1, Stembidge Road, Anerley, S.E.20.

### WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price, 2s. 6d. each. Carriage paid on a dozen upwards. Terms: Cash with order. — E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.



**TO MEMBERS ONLY.**

I can forward you a Lamp that will illuminate a laying house 12 x 8, or larger, which is absolutely hurricane proof. This is a Naval Hanging Lamp, beautifully made and simplicity itself to clean and work. Having tried one I ordered four for my own houses. I can obtain about 50 at the nominal price of 12s. 6d. each, carriage paid, and money returned if not satisfied. Please send no money until communicated with, as I expect a large demand for these, because they are really a marvellous bargain.—Clayton Smith, Yew Cottage, Rockingham Avenue, Romford.

**DUCKS AND DRAKES.**

Wilson's **RUNNER Ducks** and **ANCONA Fowls**, probably world's best appearance; coupled with egg production; list free; Duck Book, 1s.—Rev. John Wilson, Hutton Forest Rectory, Penrith.

**FAWN and WHITE RUNNER Duck** 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

24 **WHITE RUNNER Ducks**, May-June hatched; 6s., 7s. 6d. each. **AYLESBURY** and **W.B. Drakes**, March-April; 10s. 6d. each.—Daintree, Wye Lodge, Ashford, Middlesex.

**BUFF ORPINGTON DRAKES.**

This year's hatch; fine birds; 15s. each.—Alan D. Pilkington, Dean Wood, Newbury.

**1st IN BUFF ORPINGTONS.**

National Laying Test, 1017 eggs in ten months; 1st, Special, County Utility Cup, Winchester; pens, Stock Birds.—Captain Heseltine, Ropley.

30 April, 1922, **WHITE RUNNER Ducks**; 10s. 6d., 21s. each, according to parents' records.—Douglas Ann, Old Thatch, Hellingly.

**IN NATIONAL DUCK LAYING TEST.**

My Pen 49, consisting of Five **WHITE RUNNER Ducks** have averaged just over

**51 EGGS EACH IN 56 DAYS.**

Ducks No. 241 laid on 116 consecutive days. Book Ducklets and Drakelets now; also Khaki-Campbell Drakelets; all at moderate prices. Duck Laying Meal, 22s. per cwt., f.o.r.—Capt. Negus, Upper Longdon Poultry Farm, Eugeley, Staffs.

Four **KHAKI-CAMPBELL Drakes**, hatched from eggs of birds from Mrs. Campbell (average 265 eggs each), 16s. each.—Barker, Aboyno, Tonbridge.

Pedigree **WHITE RUNNER Drakes**, sons of Duck No. 215, who laid 203 eggs in the 1920-21 National Laying Test; 21s. each.—Fletcher, Felestead, Essex.

**KHAKI-CAMPBELLS.**

**DRAKELETS**, reared on free range; April hatched; Street-Porter, direct this year; to clear, 7s. 6d. each; three, £1.—F. Green, Moore Isles, near Burnley.

**RUNNER DRAKES**, 1922 hatched, from Harold Paine Ducks; 10s. 6d. each.—Pullen, Holly Bank, Burgess Hill.

Three Exceptionally Fine **KHAKI-CAMPBELL Drakes** (Harold Paine's direct), reared on grass runs; 12s. 6d. each, carriage paid.—Hartley, Swift Lane, near Keighley.

**TO IRISH MEMBERS.****KHAKI-CAMPBELL DRAKES.**

For Sale. Harold Paine's direct.—Mrs. Barrow, Milestown, Castlebellingham, Ireland.

**FAWN RUNNER DUCKS.**

Nineteen 1921 **DUCKS**, direct Wilson strain; 10s. 6d. each, or £9 the lot. Drakes from 7s. 6d.—Greenwood, Cheddingley, Sussex.

Ducks and Drakes.—**KHAKI-CAMPBELL Drakes**, April hatched, from Capt. Long's No. 1 Pen; fine, vigorous birds; moderate price, or Exchange.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

**AYLESBURY DUCKS.**

Ducks from very large prize winners; 10s. 6d. each; Drakes from 7s. 6d.—Greenwood, Chiddingly, Sussex.

**NYE and SON** offer Pedigree **FAWN and WHITE RUNNER DRAKES** from their strain which produced world's record layers, 423 eggs in 437 days, etc.; from 7s. 6d. each. Inspection invited. Shoreham-by-Sea.

**PIGEONS.**

**UTILITY PIGEONS**, Mondains, large table birds; related to Bingley Hall prize winners; 20s. to 20s. pair; Squeakers, 6s., 7s. 6d.—Fidler, Colehill, Wimborne.

**RABBITS.**

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

**PIGS.**

Young Pedigree Large **BLACK GILTS**; 45s. each. Eligible registration.—Douglas Ann, Old Thatch, Hellingly.

**FOODS.****OYSTER SHELL.**

Best American, f.o.r London, Hull, Manchester, Newcastle, Avonmouth, 6s. cwt., 115s. ton; frequent arrivals. Cockle, Flint, lowest prices. Samples free.—Midland Grit Co., Stourbridge.

**GRANULATED CHARCOAL.**

Guaranteed Quality, half-cwt., 12s.; cwt., 22s., carriage paid. Also Cedar Lard Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near W.

**SPECIAL VALUE IN POULTRY FOOD.**

**GOOD CLEAN WHEAT SCREENINGS**, 100 per 112lbs. Guaranteed Sussex Ground Oats 17s. per 112 lbs. Bags Free. Carriage forward.—Marland and Co., Poultry Farm, Millers, Mossley, Manchester.

**DERBYSHIRE LIMESTONE GRIT.**

3s. 6d. cwt.—Thorhill, Great Longdon, Derbyshire.

**WHAT DO YOU PAY?**

Finest Quality **MEAT or FISH MEAL** 17s. 9d. cwt., f.o.r.; 5cwt. carriage paid. Samples, stamp.—Douglas Ann, Old Thatch, Hellingly.

Special Offer for one week only, cash with order:—Best Quality Yeast Meal, 16s. 6d. cwt.; Maize Gluten Feed, 10s. 6d. cwt.; Oyster Shell, 5s. 9d. cwt.; Grit, 3s. 3d. cwt.; Fine White Midds., 11s. cwt., f.o.r. Carriage paid.—Prices by return post.—Parsons and Sons, Ash, Surrey.

**MISCELLANEOUS.**

Strong, Vigorous Early-March, 1922, **RED Boucher-Crawley Cockerels**, and **W. WYANDOTTE (Barron-Cooper) Cockerels**. All of fine type and colour, and from high record hens. 20s. each. Also a few 1921 Breeding Hens, with good winter records, 10s. each.—Philip Goodwin, "Oakspan," Cheddle Hulme, Cheshire.

**EDENMORE POULTRY FARM. HOOK, HANTS.**

**WHITE WYANDOTTES**, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by way of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators.—For particulars and prices apply to Brig-General Macconchy, Edenmore, Hook, Hants.

**F. JOEGENS**, Specialist and Largest Breeder of Crows, Stock Birds, Pullets and Chickens.—Kennylands, Hemmer Green, Reading.

**WHITE ORPINGTON ONLY.**

Write for prices and particulars of our trap-nested stock.—Manager, Westridge Egg Farm, Wotton-under-Edge.

## CARBERRY POULTRY FARM, FOCKBRIDGE, HANTS.

1920 and 1921 Hens for Sale, WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS, and WHITE LEGHORNS: 5s. to 10s. each, according to age and record. All with records from 175 to 1. Individual records supplied. Stock Cockerels of above breeds. Prices on application.

For Sale, Going Concern, Well-Established POULTRY FARM, House, 17½ acres land, free acres lake; over 800 head laying stock. Dissolving partnership.—Box 157, Eggs," 94, Farncombe Street, London, S.E.16.

Due to Dissolution of Partnership. Special Opportunity to obtain Prize Strain stock. Grand Breeding Pen, Cam's White Wyandotte 1921 Cock and eight 1920 Hens, guineas. Also 36 White Leghorn, trapped, 1921 Hens, by son of Lady Eglantine, from Tom Barron's hens; flock average to August 31st, 160; 15s. And 56 Pullets, from same pen, 15s. to 21s., or near offer.—Linger, Sherbrooke, New Milton, Hants.

PULLETS, May hatched, White, Brown, Black Leghorns, White Wyandottes, Buff Rocks, 12s. 6d. each; April, cross-breeds, 8s. — DUCKS, Orpingtons, Aylesburys, Runners, April hatched; some laying; 12s. 6d. — RAKES, 10s. 6d.—Mrs. Wilson, M.S.P.B.A., Inorca Farm, Denholme, Bradford.

RHODE COCKERELS (February), by son of Boucher's World's Champion Hen (1,045 eggs in four years, never broody), from hens with records up to 278; price 42s. — WYANDOTTE COCKERELS (Cam's), by son of College Queen (301 eggs), from hens with 257 year average; price 30s. 40 BLACK LEGHORN (Carr) 1921 Pullets, present records up to 236; price 20s. each, on arrangement the lot.—Apply, Sturgeon, Ackington, Canterbury.

### THEY MUST GO.

The following birds remain of my surplus stock sale, and must go at tempting prices:—15 1921 White Leghorns, Padman and Joe Edmondson, flock average 184; price, 8s. each; 10 1920 White Leghorns, dual daughters Pen 53, Silver Medal Winners, Harper-Adams' 1916-17, pure Padmans, price 6s. each. Few March-April White Leghorn Pullets, 25s. each; May, 21s. each. Carriage paid. Approval.

### BLACK UNDERWOOD, S.P.B.A.

Liability Poultry Farm, Sutton Bonington, Loughborough.

### CROAD LANGSHANS.

Twenty-three fully matured January hatched Pullets; bred from prize winners, full lay; 21s. each, or twenty guineas the lot. Also Stock Cockerels, January hatched, from similar pens; 12s. 6d., 15s., and 20s. each.—Greenwood, Chiddingfold, Sussex.

Cooper's 1921 WHITE WYANDOTTE Hens; Barron's 1921 WHITE LEGHORN Hens, over 200 eggs per bird; all L2 Birds; price 10s. each; 1921 cocks direct, 10s. each April hatched Pullets, from my registered pens, 15s.; May hatched, 12s. 6d. each; Cockerels, April, 7s. 6d.; May, 6s. 6d. Khaki-Campbell Drakes, Oscar Brown's, 8s. and 10s. each. Approval.—A. Hickton, S.P.B.A., Fireless Brooder Works, Mansfield Woodhouse, Notts.

### BUNGALOWS.

For Sale, delightful Bungalow, in lovely Hampshire; nine acres; poultry houses, etc., for 500 birds; 2min. station. — Box 161, "Eggs," 94, Farncombe Street, London, S.E.16.

For Sale, midway between Corfe Castle and Swanage, Wooden Bungalow, 5½ acres, freehold land. Good position for Poultry. Close main road. Plentiful supply water. Indoor sanitation. Two bedrooms, one small hall, one bath, w.c., sitting room, kitchen. Price £650. Immediate possession. —Apply, W. Bourne, Harman's Cross, Langton-Matavers, Dorset.

### PUPILS.

The ELTY POULTRY FARMING SCHOOL, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outskirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

LADY PUPILS.—There will be Vacancies for a few Resident Lady Pupils on Poultry Farm in North Devon in October. A new plant is to be erected on up-to-date lines this winter, which will offer special experience. — For particulars, apply to Shepherd, Rhualt, St. Asaph, North Wales.

LADY PUPIL Wanted, for up-to-date Farm. All branches taught; tuition for services rendered. — Tansyknowe Poultry Farm, Bothwell, Lanarkshire.

BEECHES POULTRY FARM, MOBBELEY, CHESHIRE. Vacancy for One Pupil. All branches of Pedigree Utility Poultry Farming. Trap-nests, construction of appliances, etc. Pedigree herd of pigs. No fees. Accommodation near at hand.

### WANTED.

#### PULLETS.

I am open to buy 250 WHITE LEGHORN Pullets in lots of 25 upwards; must be March hatched, and keen price.—Albert Butterworth, Luddenden Foot.

### MISCELLANEOUS

BLACK LA BRESSE Cock (1921), to Buy or Exchange 1922 Cockerels.—Cowan, 41, College Bounds, Aberdeen.

## COMMERCIAL POULTRY FARM.

Wanted a Good Going Concern or Partnership in well-established business. Capital and experience available. Full test investigations.—Box 149, "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, early 1922 Cockerels. Three WHITE WYANDOTTES (Cam's), Ten WHITE LEGHORNS (T. Barron), One WHITE LA BRESSE. State age, dam and sire dam records. Price. — G. Longden, Draycott, Derbyshire.

Wanted.—One Hannaford's "POPULAR" HOUSE, No. 2; One Hannaford's PIONEER Hover; Two Hebditch's "TRIUMPH" HOUSE; One Hebditch's "DREADNOUGHT" HOUSE; 100-BGG INCUBATOR. Complete and in good order, delivered.—Ringwood, Lyon, Leys, Bordingbridge.

### BREEDING PEN.

Wanted, BREEDING PEN, BUFF WYANDOTTES.—Tucker, Roseville Terrace, Cross Gates, Leeds.

### SITUATIONS VACANT.

For Small Chicken Farm, Strong Help; Bungalow; fair cooking; two in family; estate salary.—Box 162, "Eggs," 94, Farncombe Street, London, S.E.16.

## *Passing it on.*

You tell your friends you have something to sell and they tell others. Thus sales are sometimes made. But think of the number of persons an advertisement in "Eggs" will tell of your desire to sell something which they desire to buy. The result is positive.



"EGGS"  
CLASSIFIED  
ADVERTISING  
COLUMNS  
• TELL ALL.

**GOVERNMENT SURPLUS.****Galvanized Steel Bins.****BIG BARGAINS.**

1 to 5 6 to 11 12 up.  
4/3 ea. 4/- ea. 3/9 ea.  
Hold 1½ cwt. Corn or  
17 galls. water.  
Withdrawable. Unused.  
Rat Proof.  
3 Wood Cases. 28 x 17  
x 14 ins.

**H. GORDON (T.)**

166, LINDEN ROAD,  
**GLOUCESTER.**

Try us for your **WET AND DRY MASHES.**  
made to your own requirements.

We offer the following:

	per cwt.
NEWMAN'S POULTRY MASH	15/-
MIDDS	11/-
BEAN BROAD	11/-
BEAN ORDINARY	8/-
MAIZE GLUTEN FEED	12/-
RUSSEX GROUND OATS	20/-
BISCUIT MEAL	22/-
CLOVER MEAL	18/-
ENGLISH CLIPPED OATS	14/-
Special Line Best MEAT MEAL	21/-

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

**The 'QUENIBOROUGH'**

A most Useful Poultry House, well and substan-  
tially built. Complete. No Extras.

4ft. x 6ft. 1' 6ft. 6in., £4/17/6. Floor 10/6  
4ft. x 6ft. x 6ft., £7/0/0. Floor 21/6.

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT A., QUENIBOROUGH, LEICS.

**"ZENITH TRAP-NEST"**

As used by the Large Poultry Keepers.  
Also in the Premier Laying Competitions.  
FRONTS, 3/- each, carriage paid.

**WIGNALL,**

Station Appliance Builder,  
LONGTON, Near PRESTON.

**BEST ENGLISH RINGS**

These are **NOT** the Cheap Imported  
but English Made.



LARGE  
STOCKS  
HELD.

**SPIRALS IN TEN COLOURS.**

Red, Green, Light Blue, Violet, Dark Blue,  
Yellow, Pink, Brown, Black, White.  
FLAT BANDS. in 10 plain colours, 5 strips.  
Aluminium, any Number and Year.

**ALL ONE PRICE.**

Day-Olds	500	400	300	150	100	50	25
2 months	10/-	8/-	6/-	3/-	2/-	1/3	1/9
Half-Grown	13/9	11/-	8/3	4/3	3/-	2/-	1/3
Light Breeds	15/-	12/-	9/6	5/-	3/6	2/-	1/4
Heavies	25/-	20/-	15/6	8/3	5/9	3/-	1/9
	26/-	21/-	16/6	8/9	6/3	3/3	2/-

All Subject to 5 per cent. Discount.

An Extra 5 per cent. to M.S.P.B.A.

Post Free.

**FULL LIST**

POST

FREE.

**ENAMELED CLOTH FOR SHUTTERS.**

6/- square yard; 6 yards, 5/6 yard; 12 yards,  
5/3 yard.

**VERMICIDE.**

A most powerful Killer of Vermin and all  
parasite life, a good disinfectant for  
Incubators, Brooders, Houses, etc., etc.

ONCE USED, ALWAYS USED.

1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6;  
Gallon, 8/6.

Carriage Paid.

Less 5 per cent., S.P.B.A.

**PENETRAS.****FINEST PRESERVATIVE ON THE MARKET.**

Not the Ordinary so-called Creosote.  
1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal.;  
40 gals. (or about), cask £2 10s. 0d.

Tins free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

**FENCING STAKES.**

Per 12. Pointed and Penetrated.  
4ft., 6/6; 5ft., 7/3; 5ft., 8/6; 5ft., 8/6;  
6ft., 9/3; 7ft., 10/-; 7ft., 10/6.

Less 5 per cent., and an extra 5 per cent. to  
S.P.B.A. All Carriage Forward.

**GALV. WIRE NETTING.**

1in.	24in.	36in.	48in.	60in.	72in.
17/2	24/5	32/7	41/7	48/9	
2in.	10/6	14/3	19/-	23/9	28/6
3in.	7/11	10/11	14/6	18/2	21/9

Per Roll, 50 yards. Carriage paid orders £7.  
Less 2½ per cent., and an extra 2½ per cent.  
S.P.B.A.

**FINE BISCUIT MEAL.**

As used on my own farm. Splendid Egg  
producer and doubles its bulk. 24/- cwt.

Carriage paid.

Reduction on ton lots.

FLINT GRIT, 5/6 cwt., carriage ford.  
OYSTER SHELL, 10/- cwt., carriage ford.  
COCKLE SHELL, 7/9 cwt., carriage ford.  
Less 5 per cent., and an extra 5 per cent.  
S.P.B.A.

**TRAP-NEST FRONTS.**

One of the Simplest and Noiseless Traps on  
the market.  
4/6 each, post free. Six or more, 4/- each.  
Reduction on large quantities.

**C. A. SYDENHAM HANNAFORD, M.S.P.E.A.,**

The Leading Maker of Good Appliances in  
this country.

**Hamworthy Junction, Dorset.**

**G. R. PINDER, M.S.P.B.A., H.U.P.S.**

Offers

A Limited Number of **BREEDING HENS** in  
**WHITE LEGHORNS.**  
**WHITE WYANDOTTES.**

ALL are Guaranteed to have L2 winner  
records of 45-60 large eggs, and have been  
bred since 1913 from the **VERY BEST.**

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

**STOCK COCKERELS.** Now is the time to  
book a good bird bred from individual high  
record hen in W. Leghorns, W. Docks,  
R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

**Lindsey Poultry Farm, Carlton, Louth, Lincs.**

**The Misses Ransford****WHITE LEGHORN STUD FARM.**

All Stock Trapnested and kept  
on Free Range.

1922 List of Cockerels bred  
from Individual High Record  
Hens now ready. Splendid  
Quality offered.

**PERSEVERANCE POULTRY FARM.  
PENSFORD, BRISTOL.**

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20-21 Bantams, Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other Varieties.  
Also all kinds of Water Fowl, Fancy Pheasants, White, Black Winged Blue and Specier Pea Fowl, Partridges, etc. Send Three pence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.

**FOR SALE.**

4 Hearson Anthracite Brooder  
Stoves, 500 chick capacity each,  
in perfect condition, used for  
one season only.

**£4 each—£15 the lot.**

**D. W. F. BELLAMY,**

**Sword Point Poultry Farm,**  
**Norwood, Otley, YORKS.**

The  
**S.P.B.A. BADGE**

Gold Letters on Blue  
Enamel.

1/- post free.

**TOM NEWMAN,**

The Beeches, Rudgwick,  
**HORSHAM, SUSSEX.**



# SMASH FENCING PRICES

*So! Here's Your Chance to Save Money*

**I**f you want to build a fence that will last for years, never need repair, and save the necessity of boarding up the bottom of the fence to prevent birds fighting, you will need some of this marvellous steel wire mesh fencing.

It is all rust proof and guaranteed to stand any kind of weather, and most of the leading poultry keepers are re-building their permanent fences with this remarkable material—they find that it makes the strongest fence possible, making it cattle and pig proof, owing to the great strength of the wire and the closeness of the mesh—see illustrations drawn exact size.

Never again will you be able to buy permanent fencing so cheap—this remarkable offer gives you a fence that will last for 20 years at a cost of the usual flimsy wire netting, and cannot be repeated once the stock is sold—you should take advantage of this **BIG BARGAIN** offer—**NOW!**

#### OTHER USES.

**FOR BROODERS.**—You can make Brooders absolutely rat and vermin proof by covering the bottom with this material at a cost of less than a shilling.

**FOR SITTING COOPS.**—You can give the birds the maximum of fresh air by using a front covered by this material, also making the coop rat-proof at a cost of a few pence.

**FOR BROODER-HOUSE FENCING.**—You should have rat-proof fences for your Brooder-house runs. There is nothing to beat this material, and at the bargain price of this material its cost is a mere trifle.

**FOR BROODER STOVE GUARDS.**—To keep your chicks safe from the fire you want a fireguard; the usual materials are of little use, but this material is unbeatable, making your stove absolutely fireproof at a cost of a few pence.

THIS IS THE MATERIAL.

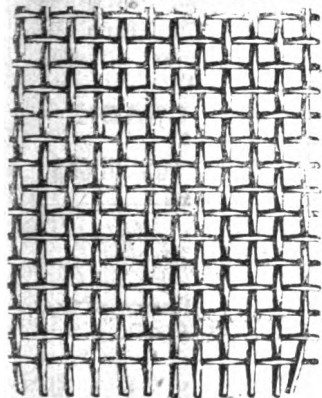


Illustration drawn exact size.

## LOOK AT THE PRICE!

Rolls 70 feet long by 36in. wide, containing 200 super feet.

1 Roll	...	£1 10 0
6 Rolls	...	£7 10 0
12 Rolls	...	£12 0 0

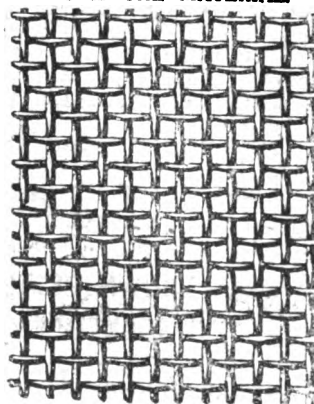
Rolls 100 feet long by 36in. wide, containing 300 super feet.

1 Roll	...	£2 5 0
6 Rolls	...	£11 5 0
12 Rolls	...	£18 0 0

Free on Rail. Cash with Order.

Send to-day—To-morrow may be too late to secure this **BIGGEST** of BARGAINS.

THIS IS THE MATERIAL.



Note the closeness of the Mesh.

**A. E. W. PHIPPS,**  
Midland Works, No. 4 HARBORNE, BIRMINGHAM





**To all Members of the S.P.B.A.**

and others who have not yet tested the magnificent results to be obtained from the regular use of "Bycolla" for feeding Poultry. Do not hesitate in applying at once to your dealer for a sample bag.

"Bycolla" aids the health and stamina of the birds, insuring a permanent increase in the egg output without impairing future welfare.

# BYCOLLA

REGD

BYCOLLA is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a 1d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spices, should be given.

NOTE.—Not more than 10 per cent. of Bycolla should be added to each mash to ensure best results.

The Analysis of Bycolla shows a very high proportion of Food Units, viz.: 154, as follows:—Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum



**CONVINCING TESTIMONY.**

**READ THE FOLLOWING LETTERS—**

"I am glad to be able to report that the last ton lot I purchased as a trial lot, has proved very satisfactory, indeed, increasing the egg yield by about 9 per cent., and the young stock has thrived wonderfully since using it."

"I beg to inform you that the experiments I carried out with the sample cwt. of your fish meal, have given satisfactory results."

**CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL.**

**SPECIAL REDUCTION IN PRICE.**

Terms: Cash **NOW 26/-** per Cwt. Bags Free. Carriage Paid. England and Wales.

Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Also Sold by Dealers in 7lb. Bags. Price 2s. 3d.

**BICOL LTD., HOPE STREET, GRIMSBY.**

## LIGHT SUSSEX

True Dual Purpose Birds from the Strain which led all breeds for the five winter months in the **Northern Laying Competition**, and led in Section 4 in the **National Laying Test** to the end of February.

**WELL-GROWN PEDIGREE PULLETS AND COCKERELS FOR SALE.**

Apply Poultry Manager—

**M. W. SLADE,**  
Mallard's Court, Stokenchurch,  
HIGH WYCOMBE, BUCKS.

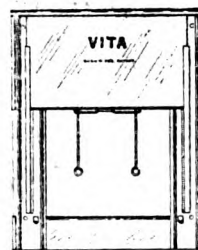
INSTALL THE

## All "VITA" Metal TRAP-NEST FRONT.

BECAUSE it is not made by hand labour, but manufactured on modern machines in large quantities, and is therefore the cheapest in first cost and cheapest always.

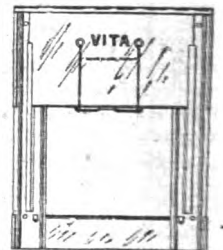
**CANNOT WARP OR CRACK.**

**THE NEST EVERYONE IS USING FOR DUCKS.**



SET.

A SINGLE ACTION RESETS THE NEST OR LOCKS IT OPEN.



OPEN.

**THORP RODERICK MFG. CO.**

32, BROADWAY, BEDFORD.

# The Royal Lancashire Show

provided the most remarkable evidence yet of the great interest which is being taken in scientific poultry feeding by the class of poultry men who make poultry their BUSINESS.



Cleveland Poultry Farm,  
Standon, Herts.  
11th December, 1921.  
Messrs.

The Algin Co., Ltd.

Dear Sirs,

I have made a test with the bag of Salubrene sent me on some R.I. Red hens during the moulting period.

A pen of sisters, all fairly rough in moult, were divided, half fed in the usual way and half had about a tablespoonful of Salubrene for 12 birds added to their soft food each day.

All through the test the Salubrene fed birds looked better and brighter than the others, and were finished the moult and laying again some three weeks ahead.

I am sufficiently pleased with the results to ask you to send me another 1 cwt.

Yours faithfully,

(Signed)

SYDNEY HILLER.

During the whole of the four days we were continually answering questions to the best of our ability on the subject of minerals, mineral salts, vitamins, etc.

Judging by the number of enquirers at the stand, it seemed that EVERYBODY—including poultry - keepers, whose names are household words—HAD HEARD OF **SALUBRENE**, and took the opportunity of asking all kinds of the most searching questions as to what it is, and what the salts in it will do in connection with the proper nutrition of poultry.

We also had the pleasure of finding a **KEEN DEMAND FOR SALUBRENE ALFALFA MEAL**.

Do not confuse our **SALUBRENE ALFALFA MEAL** with the ordinary clover meals; there is a world of difference, and you have only to see a sample to realize it.

# Salubrene

Corn Merchants keep Salubrene in packets at 1/3 each.

We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

A month's supply for 20 birds post free 1/6

Full instructions for feeding Salubrene to chickens, layers and breeding pens free.

Successful Poultry mashes for all purposes free for card.

Write to—

THE  
**ALGIN COMPANY, Ltd.,**  
(Desk E),  
12, Norfolk St., Strand,  
London, W.C.2.

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank"

# WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
 White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.  
**BLACK MINORCA COCKERELS.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**



THE GREEN-CLOVER MEAL PEOPLE.

*If you want Autumn and Winter Eggs*

**Don't let your hens 'hang' in their moult.**

As soon as they have shed most of their old plumage give them our **GROWING or FEATHERING MASH** for a few weeks; it may easily make a month or two's difference to their starting to lay again.

*May we send you our September Price List.*

**THE STEYNE FOODS Co.,**  
**STEYNING, SUSSEX.**

## DRY MASHES.

### BREEDING OR LAYING MASH.

20/- per cwt. Carriage Paid.  
 11/- per 1 cwt. Carriage Paid.  
 As Used on Our Own Egg Farm.  
 We know by experience that these are the most Profitable Mashies.  
 Try some yourself, and prove the truth of this statement.

**HATFIELD & DURRANT,**  
**BOTTISHAM, CAMBS.**

### Black Leghorn Cockerels.

Dam's records 290-230. Price, 21/- to 30/-.  
 Hens, 12/6. Pullets, 25/-. Mated Pens pro rata. My Pen 204, Harper-Adams' 1921-1922 Test, held 3rd place in winter, 4th and 10th month, and gaining on leading pens. High percentage, 20z. eggs. Also W. Leghorns and W. Wyandottes.

**W. A. LANSLEY, S.P.B.A.**

"St. Vincent," Tilstock, Whitchurch, Salop

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.	per cent.
Moisture	8.73
Oil	.60
Albuminoids	46.94
Carbohydrates	26.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

### OSSIFIED YEAST.

Analysis.	per cent.
Moisture	6.86
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
*Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
† " Phosphate of Lime	18.88
Sand and Silicious matter	0.33
Total Food Units	160

### PRICES:—

Dried Yeast, 20/- per cwt.  
 Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
 Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
**Derby Road, BURTON-ON-TRENT.**

**MOORSWOOD**  
**POULTRY FARM,**

**HERONS GHYLL, UCKFIELD, SUSSEX**

Proprietors: Mrs. James Hope & Miss A. Howard  
 Manager: Mr. E. Lou.

Breeders of High-Class Pedigree Utility Poultry  
 Rhode Island Reds (s.c.) Light Sussex  
 and White Wyandottes.

PULLETS from £1. COCKERELS from £1 1s.  
 A Limited Number of 1921 PULLETS at 12/6.

## FOR EGG PRODUCTION OUR SPLENDID FOODS.

	per cwt
Sussex Ground Oats (Pure)	...
Barley Meal (Fine Ground)	...
Middlings, English	...
Bran	...
Maize Meal	...
Wheat (New Sound)	...
Best Mixed Corn	...
White Poultry Oats	...
Kibbled Maize (Plate Screened)	...
Kibbled Maize (Yellow Flat Screened)	...
"Wyeocot" Dry Mash	...

The above Mash is prepared by Formula as used by Capt. Frank Hart, A.B.S.A., S.P.B.A., Wyeocot Poultry Farm, Brook Ashford, Kent.

Free on Rail. Bags Included.  
 Cash with Order.

**M. HANCOCK & SON, Ltd.,**  
**MERSHAM MILLS, ASHFORD, KENT.**

## Let SPRATT'S Ship your Livestock

Relieve you of every worry from start to finish, insure your birds, and deliver them in perfect condition to any part of the world.

Spratt's will help you to satisfy foreign and colonial buyers by packing and shipping your birds in the class style. Poultry is shipped in specially designed coops, you are relieved of every detail from start to finish. Insurances effected. Write particulars to

Shipping Department,  
**SPRATT'S PATENT LIMITED**  
 24, Fenchurch St., E.C.1

Here we are Again

## BARGAINS in POULTRY FOODS

Best White Wheat, 16/- per cwt.;  
 Clipped White Oats, 14/- cwt.; Best  
 Mixture, 13/6 cwt.; New Round Main,  
 12/- cwt.; Oyster Shell, 7/- cwt.; Grit, 5/6  
 Sweet Clover Meal, 10/- cwt.; Complete  
 Ing Meal, 12/- cwt.; Best Fish Meal,  
 12/- cwt.; Best Meat Meal, 18/- cwt.; Best  
 Dair, 12/- cwt.; No. 2 Fowl Corn, 12/6  
 Middlings, 11/6 cwt.; Bran, 9/6 cwt.;  
 Bone, Best Egg Producer, 15/- cwt.;  
 Despatch. F.O.E.

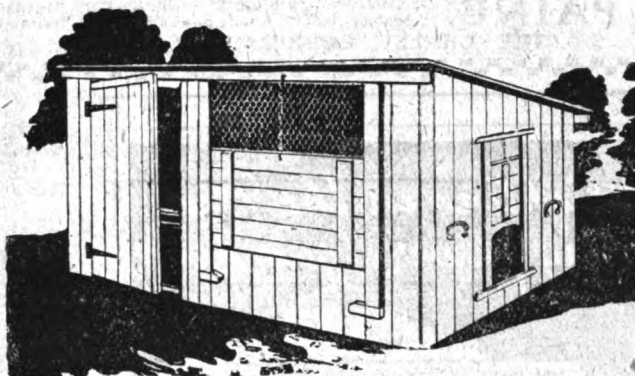
MARCH 1922 PULLETS, 7/6.

**G. THISTLEWAITE, Corn Mill**  
**Wavertree Road, LIVERPOOL.**

## The "DREADNOUGHT" Poultry House.

The "DREADNOUGHT" is made on a strong frame, to which is attached to form the walls and roof—fin. best Swedish deal boards, which are V-jointed, tongued, and grooved, and nicely planed. The strongly-made door is hung with stout hinges and fitted with press-lock and key. It has also a cleat round it.

The up-and-down sliding shutter is suspended on a strong chain—thus shutter can be hung at any height desired. The slide of hen exit is also attached to a chain. Handles for lifting. Two strong perches, and screws for erecting. It is sent out in sections ready for putting up.



6ft. long, 4ft. wide, 4ft. high.

PRICE—

**£2 6 0**

A Marvel of Cheapness.

Three for £6 13s. 6d.

Six for £13 2s. 6d.

Floors 13/- each extra.

Carriage paid to any station in England or Wales.

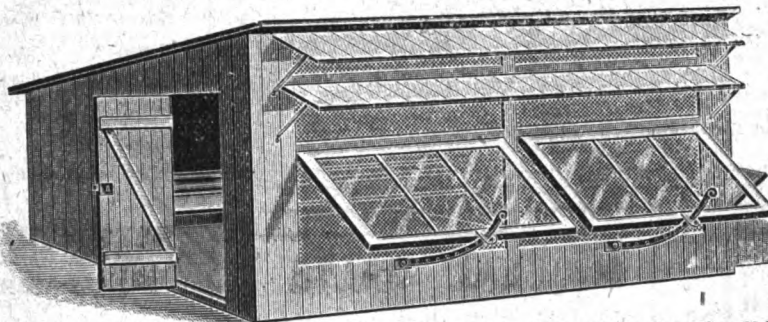
Promptly despatched.

If pickled the cost is 3/6 each extra.

Get the Free Catalogue of all Requisites for the Poultry Keeper.

## The "MARTOCK" Intensive House.

No.	
1	for 15 fowls
2	is for 25 "
3	" 50 "
4	" 100 "
5	" 150 "
6	" 200 "
7	" 250 "
8	" 300 "
9	" 350 "
10	" 400 "
11	" 500 "
12	" 600 "



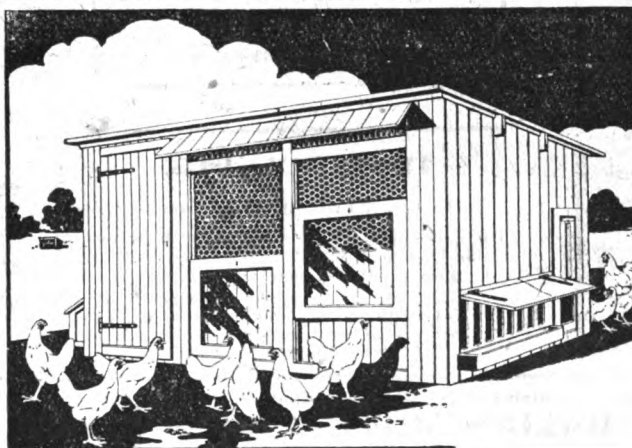
No.	Long	Width	Height at back	Height at front	Prices.	Floors extra.
1	6	10	5	6	12 16 6	2 17 6
2	10	10	5	6	17 14 6	4 5 6
3	10	16	4	7	23 11 0	7 9 6
4	20	16	4	7	39 3 0	14 4 6
5	30	16	4	7	57 10 0	20 7 0
6	40	16	4	7	76 15 0	26 9 6
7	50	16	4	7	95 15 0	32 12 0
8	60	16	4	7	114 2 6	38 14 0
9	70	16	4	7	132 3 0	44 16 6
10	80	16	4	7	150 10 0	50 19 0
11	100	16	4	7	188 10 0	63 3 6
12	120	16	4	7	223 8 0	75 8 6

The "MARTOCK" is built on an extra strong frame. The walls and roof are of fin. best Swedish deal boards, which are tongued, grooved, and V-jointed. The floor is on very strong pickled joists. Movable perches, wide dropping-board, nest boxes, adjustable windows, and ventilating shutters. The house is built in sections, and so sent out, with all the necessary bolts for erecting. Carriage paid in England and Wales. Prompt despatch. If pickled by immersion in Preserolium the cost is 1/6 in the £ extra.

You should get the Free Catalogue wherein the "Martock" House is more fully described.

## The "EXCELSIOR" Semi-Intensive Poultry House.

The "EXCELSIOR" is constructed for the express purpose of greatly increasing the egg-yield by the scratch and lay principle. The special lines on which it is designed make it particularly suitable for this purpose. As an Egg-producing House there is certainly nothing better. It is built on thoroughly strong framing, with fin. tongued, grooved, and V-jointed Swedish deal. A wide dropping-board is placed below the perches to keep the floor clean for the scratching litter. There is a feeding trough at one end and laying boxes at the other.



No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 6ft. wide, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

Price—No. 1.

**£7 8 0**

Floor 26/6 extra.

Price—No. 2.

**£9 15 6**

Floor 39/- extra.

Carriage paid to any station in England or Wales.

Prompt despatch.

If pickled with Preserolium the cost is 1/6 in the £ extra.

**HARRY HEBDITCH, Ltd.,** Desk J, The Poultry Martock, Somerset.

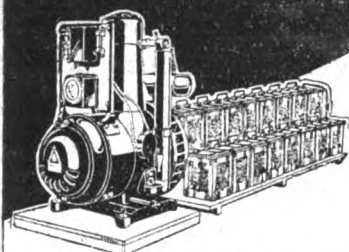
'Phone: Martock 2. Telegrams: "Hebditchs, Martock."



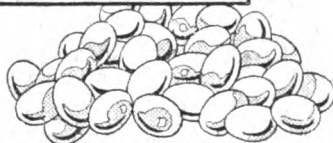
Early-hatched s.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Beucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bantley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

*Let Artificial Lighting in the Pen  
increase the laying power of your hens*



Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office:—75, Victoria Street, Westminster, S.W.1.

## We Know

What you are up against. We have been in the Poultry Keeping Line ourselves for nearly twenty years.

HERE'S THE BEST WE CAN DO FOR YOU:—

	per cwt.
New English Wheat	12 6
New English Oats	13 0
Clipped and Screened Oats	13 0
Kibbled Plate Maize (Screened)	12 0
Sharps	10 0
Broad Bran	8 0
White Middlings	13 0
Pullet Mixture (from the Best Old Hard Grain)	14 0
Poultry Corn	12 6
Dari	12 6
Maize Meal	10 0
Maize Germ Meal	13 0
Maize Gluten Meal	13 0
Ground Oats	15 0
Newman's Poultry Mash	14 0
Flaked Maize	13 6
Biscuit Meal (Graded)	25 0
Biscuit Meal (Fine)	3 0
Limestone Grit	1 0
Cockle Shell	5 0
Oyster Shell	7 0

Cash with Order. Bags Free. Carriage Forward.

**FRANK SHEARN & Co., Ltd.**  
MIDSOMER NORTON, SOM.

'Phone 51.

**"Poultry Foods and Feeding"**

ALSO

**"Chicken Rearing."**

BY

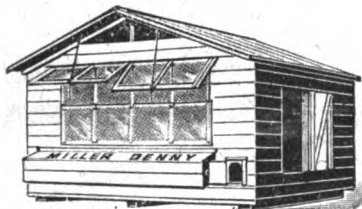
**TOM NEWMAN.**

*Rudgwick, Sussex.*

Price 6<sup>1</sup>/<sub>d</sub>. Each,  
Post Free.

"Eggs" gives to Advertiser and their goods a prestige and quality reputation that no other publication can give.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLERS PARADISE HOUSE

For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best. Best. Best, every time. . . . . His Exchequer Leghorns are world famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from  
— **ROBERT MILLER,** —  
DENNY, SCOTLAND.

## MINERAL SALTS.

A High Grade Mild Aperient, containing Valuable Iron Tonic Properties. For birds in the moult, and for generally toning up the system, it has no equal.

In Patent Air-Tight Tins.

2-lb. size, 2/6. 4-lb. size, 3/9

Carriage Paid.

**ALBION THORPE & SONS,**

Poultry Food Makers,  
**RYE, SUSSEX.**

## 1922 PULLETS.

MAJOR HEAPS,

The Villa, Rosehill, Market Drayton, Salop.  
Has February-March Pullets for Sale.  
L. Sussex, W. Wyandottes, 15/- to 25/  
W. Leghorns, April, bred from his "Daily Express" and S.P.B.A. Winners, 15/- to 30/  
Cockerels of above Breeds from 20/  
1921 Hens for Breeding Pens.

If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
The Largest British Mutual Life Office. **AUSTRALIAN MUTUAL PROVIDENT SOCIETY.** (A.M.P.) Established 1848.

ASSETS £48,000,000 NEW ORDINARY BUSINESS for 1921 £2,855,000  
ANNUAL INCOME £7,000,000 TOTAL ORDINARY ASSURANCES IN FORCE £137,000,000  
PURELY MUTUAL. ALL PROFITS BELONG TO POLICY HOLDERS. EVERY YEAR A BONUS YEAR.

Cash Surplus (Ord. Dept.) Divisible, 1921, £1,400,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War  
London Office: 73-76, KING WILLIAM STREET, E.C.4. W. C. FISHER, Manager for the United Kingdom.

# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.



Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed  
PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

### The British Fibrocement Works, Ltd.

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

Telephone ERITH 89.

London Office: Central House, Kingsway,  
Telephone: GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.  
Telephone: CENTRAL 7292.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.

Telephone: BRISTOL 272.

Also at Glasgow, Swansea, Dublin and Belfast.

### PURE SWEET STERILISED BLOOD.

**RENTOX (Regd).**

1 lb. bag sent post free for 4s.

Full Particulars on request.

MIDLAND CATTLE PRODUCTS, Ltd.,  
NORDELMY STREET,  
BIRMINGHAM.

### COCKEREL BOXES

21/6 each. Carriage Paid.

Every purchaser delighted. Send for  
our Catalogue giving full particulars.

**The Surrey Value Co. (Dept. 2),**  
Redhill. 'Phone 290.

## Leckhampton Poultry Grit.

THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces  
perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in  
the form of a conglomerate rock.  
Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton;  
24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton;  
23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## Not

because WE say our  
birds are in every way  
to be commended,

## But

because customers  
and others who have  
seen our farm are so  
well satisfied, should  
you send us your  
enquiries.

## High Praise Indeed.

E. Hales, Esq. Sandown,  
West Mersey Poultry Farm. Isle of Wight.  
13th Sept., 1922.

Dear Mr. Hales,—

I enjoyed my recent visit to your  
farm exceedingly, and was quite  
pleased to note the excellent quality and  
type of the stock you are breeding.

You realise the importance I attach  
to type and stamina for egg production,  
and providing you select on the lines  
you have intimated there is no doubt  
you will possess some of the finest  
breeding pens possible.

A. PRIEST.

Newlands Poultry Farm,  
Wigmore, near Chatham.  
8th Sept., 1922.

Dear Sir,—

Received Cockerels yesterday, in  
good condition. They are splendid  
birds, and I am very pleased with them.  
I hope they will be as good as they  
look in the breeding pens.

W. PYSDEN.

I have for sale a few of my Breeding  
Pens, comprising six two-year-old R.I.R.  
Hens, one R.I.R. Cockerel, February, 1921,  
hatched (Crowley and Boucher strain).

Also six W. Leghorn Hens, two years old,  
one W. Leghorn Cockerel, February, 1921,  
hatched (Padman and Newman's strain).

Price range from £3 17s. 6d. to £5 5s. 6d.  
per pen, carriage paid.

Also a few February, 1921, hatched W.  
Leghorn Cockerels and Pullets, and a few  
February, 1921, hatched R.I.R. Cockerels  
and Pullets, same strain as above.

Price: 12s. 6d. each, or Six for £3 8s. 6d.  
Carriage paid.

All birds sent on approval, four days.

Further particulars as to Egg Records,  
etc., with pleasure.

**West Mersea Poultry Farm,**  
**ESSEX,**

Nr. COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.**

**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.

**THESE ARE STRAINS OF**  
**QUALITY**

Buff Rocks, Rhode Island Reds,  
 White Wyandottes, White Leg-  
 horns, Aylesbury and Runner  
 Ducks.

**CAPT. R. C. BEATTIE**  
 Riverside P.F. Totnes, S. DEVON.

TRAP-NESTED PEDIGREE STOCK.

**EGGS** MATING LIST FREE. **CHICKS**

**S. & J. PARSONS,**  
 The Poultry Farm, Musbury, Devon.

Breeders of the Highest Class Utility White  
 Wyandottes and White Leghorns, and consistent  
 winners in the various laying competitions.

Specialist Breeders of High Pedigree Cockerels.

1922 Cockerels from 21/- to 34/- each.

1921 Cockerels from 15/- to 30/- each.

1922 Pullets (Early Hatched) 21/- to  
 42/- each.

A few Special 1920 Hens at 9/- to  
 12/6 each.

Our Book "The Secret of Egg Production," 3/-  
 Further particulars on application.

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).  
 Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
 Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

Also for fattening:—

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**GARR, MACDONALD & CLEVELY, LTD.,**

**BRITANNIA MILLS,**  
**HEATHFIELD, SUSSEX.**

**6, BROAD STREET,**  
**RATCLIFFE, LONDON, E.1.**

**NOTE THESE PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in rela-  
 tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	16/-
Sussex Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

**MEALS**

Maize Meal (fine)	11/6
Sussex Ground Oats	12/-
S.P.C. Dry Mash	13/-
Bran	4/-
Middlings	11/-

ALSO—Maize (whole), Dair, Bar-  
 ley, Oat Feed, Barley Meal, Bis-  
 cuit Meal (Poultry), Service Meal  
 (fine), Cockle Shell, Flint Grit,  
 Mixed Grit, Pure Oyster Shell, in  
 K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMI-  
 CAL QUALITY FOODS** to-day.  
 Order through Secretary,  
 S.P.B.A., and get your discount.

**The Service Food Co.**  
 VICTORIA MILLS  
 CHICHESTER

**DRY MASH, For Egg Production.**

16/6 cwt. Carr. Paid.

**CHICK MASH**  
 Frame  
 Builder.

18/6 cwt.

Carr. Paid.

**'GLOFALFA' MEAL**

From Genuine  
 Alfalfa  
 and Clover

**FAM**

15/- 100 lb.

Carr. Paid.

Phone 130

Fish Meal.

Meat Meal.

Biscuit Meal.

Palm Kernel

Meal.

Rice Meal.

Maize Meal.

Maize Germ.

Sussex

Ground Oats.

Flaked Maize

K'bled Maize

Soya Bean

Meal.

English do.

P'try Wheat.

Poultry Oats.

Dried Yeast.

Dried Butter

Milk.

Dried Fatt

Milk.

Grit & Shell.

**PHILIP CHURCH & SONS,**

**SWAN WHARF,**

**BISHOP'S STORTFORD.**

DISCOUNT TO MEMBERS S.P.B.A.

## A NEW



## BROODER

Regd. Trade Mark.

We have lately perfected and patented a new "Illuminated Fireless" Brooder for indoor use. The Brooder will hold 320 CHICKS from one day to six weeks old. It can be placed in any brooder house previously fitted for an anthracite stove, or any shed, room, etc., with plenty of light and floor space not less than 10 feet square. The brooder is made in sections for storing after use, and is very inexpensive.

PRICES AND FULL DETAILS WILL BE PUBLISHED SHORTLY. OUR NEW ILLUSTRATED CATALOGUE DESCRIBING THIS BROODER WILL BE SENT ON WHEN RECEIVED FROM THE PRINTERS TO ANYONE SENDING APPLICATIONS NOW.

A MODEL OF THIS BROODER WILL BE ON OUR STAND, No. 161, AT THE DAIRY SHOW.

**"PLANOK" EGG BOXES**

A New Line of Egg Box at Extremely Reasonable Prices. Specification, Ends and Sides dovetailed, iron bound twice, varnished, lid strongly hinged, smaller sizes fitted with hasp and staple and handle on lid, inside fittings of strong leatherboard, felt between each layer and at top and bottom.

	Single Box.	6 or more.	12 or more.	
Note and Compare these Prices.	6 doz. size ... 6/-	5/6 per box	5/- per box	Carriage Forward.
	10 doz. size ... 8/-	7/3 " "	6/6 " "	
	30 doz. size ... 15/-	14/- " "	13/- " "	

SPECIAL LINE EGG BOXES. 24 or 30 Doz. Size. Strong timber, varnished, iron-bound three times, lid strongly hinged, cardboard partitions and layers (24 doz. size have woodwool between layers). LIMITED NUMBER ONLY.

Single Boxes, 10/- Six or More, 9/- each. Twelve or More, 8/- each. Carriage fwd.

**"PLANOK" TRAP NESTS**

The Cheapest and Most Reliable on the market. SOLD IN SETS OF TWO, NEST BOXES and FRONTS COMPLETE.

PRICES for "made-up" Sets, complete, Single Sets, 10/6 ea. car. fwd. 3 or more, 7/6 ea. car. fwd. 25 or more, 7/- ea. car. fwd.

" " Sets "in the flat," complete, 10 Sets, 6/- per Set. 20 Sets, 5/6 per Set. 30 Sets or more, 5/- ea., all car. fwd.

NESTS in "KNOCKED DOWN" Form are only sold in lots of 10 or multiples of 10. They are complete and ready for nailing together by buyer.

**WORSSAM & ABBOTT,**PYRCROFT HOUSE,  
CHERTSEY.Phone:  
CHERTSEY 8

By Order of Messrs. Hodgson and Robinson  
(The Well-Known Poultry Breeders).  
KEW GARDENS POULTRY FARM,  
SOUTHPORT.

SATURDAY, OCTOBER 14th, 1922,  
at 1.30 p.m.

MESSRS.

J. HINDLE &amp; SON, F.A.I.,

Are favoured with instructions to Sell by  
Auction, as above,

1,000 Head of PRIZE and UTILITY POULTRY,

comprising—  
Rhode Island Reds, White Wyandottes,  
Arconas, Black and White Leghorns, Light  
Sussex and Aylesbury Ducks.

Fuller particulars, of which will appear  
in the printed catalogues, which are in  
course of preparation.

Messrs. J. HINDLE & SON, F.A.I.  
SOUTHPORT, LIVERPOOL, and FORMBY.

A REAL OPPORTUNITY.

**The Misses Ransford**

Having decided to give up WYANDOTTES  
in order to devote their whole time and  
attention to their Leghorns, offer

**40 1922-Pullets,**

February and March hatched; 20 already  
laying.

All are bred from Trap-Nested Stock,  
and are related to "LADY NON STOP," the  
famous hen who laid 416 24 oz. eggs in 21  
months.

Full Pedigree and Trap-Nest Records to  
date supplied.

Prices: 21/- and 25/- each; £40 the lot.

**PERSEVERANCE POULTRY FARM,**  
PENSFORD, BRISTOL.

All Stock kept on Unlimited Free Range.

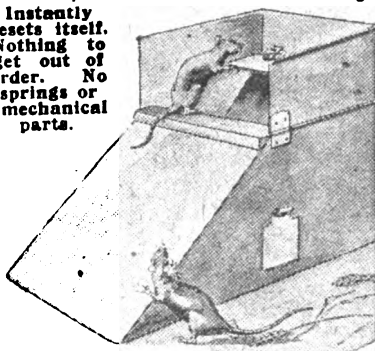
**Hastings Sheet Metal and  
Poultry Appliance Works,  
HUGHENDEN ROAD, HASTINGS.**

Awarded Certificate of Merit and Highly Commended as  
an Improved Rat Trap at Sussex Agricultural Show.

**THE EVER-READY RAT-TRAP.**

Best Trap Invented. Catches Numbers in a Night.

Instantly  
resets itself.  
Nothing to  
get out of  
order. No  
springs or  
mechanical  
parts.



No adjustments. Simple and effective.  
Made of strong Galvanised Iron. Patent  
applied for. 8490/22. Free on Rail.

Size for Rats, each 24". Ditto for Mice, 5/6

Liquid for putting on Bait, 1/- per bottle.  
Cash with order. Makers of all Poultry  
Appliances. Write for our Price List.

TRAP-NESTING CARDS, 64 x 12 1/2 inches  
1 doz., 1/3; 50, 3/9; 100, 8/6; 250, 15/-.

Trap-Nesting Record Books, 6/-.

Hatching Record Books, 7/6 and 11/-.  
Stud Books for Fowls, 6/-.

Incubator Records, 1/3 doz.; 7/- per 100.  
Backyarder's Complete Record, 8d.  
Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKS, LEICESTER.

**Eggs Insured**

in the  
"Pockock"  
Patent and  
"Cushion"  
Patent

**Egg Boxes**

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**Pedigree Utility Stock Cockerels  
and Pullets.**

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
REDS.

Pedigree Stock Cockerels a Speciality.  
Bred from individually recorded L2  
Hens, with high winter records. All  
Stock is sent Carriage paid and on  
full approval.  
Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.),  
THE WORLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.



**"UTILITY" TRADE MARK POULTRY FOODS**

Real Bargains until Parcels Cleared.

**Special Offers to S.P.S.A.**

	per cwt.	s. d.
500 bags Pure White Wheat Meal	12	0
500 bags Best Sussex Ground Oats	15	0
1000 bags Fine Biscuit Meal	14	0
500 bags Best Quality Fish Meal	15	0
1000 bags Maize Gluten Meal	12	6
500 bags Maize Germ Meal	11	6
1000 bags Best Mixed Fowl Corn	12	0
500 bags Heavy Clipped Oats	11	6
500 bags Dari Seed, Red 10/-, White	11	0
250 bags Manitoban Feed Wheat	10	6
200 bags Light Wheat, Good Value	8	6
100 bags Vegetable Charcoal	14	0
1000 bags Special Laying Meal, consisting of Biscuit, S.O., Wheat Meal, and Meat Meal	16	0

F.O.B. Liverpool. Bags In. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL**

Phone: 2586 Royal. Telegrams: "Emphatic." Established 1868.

**AMERICAN OYSTER SHELL****SPECIAL OFFER.****AMERICAN CRUSHED OYSTER SHELL, MEDIUM GRADE.**

Prices Free on Rail, Liverpool, on application.

**The British American Shelgrit Co.**

Bank Chambers,

**282, Marsh Lane, BOOTLE, LIVERPOOL**Phone: 696 Bootle.  
Telegrams: Poultry, Liverpool.**DR. J. H. BALDWIN****SPRINGFIELD P.F. WIMBORNE, DOR.****ONLY THE VERY FINEST STOCK****White Leghorns,****White Wyandottes,****R. I. Reds (and)****Bred from PENS of TESTED PARENTS****and PENS headed COCKERELS bred from****PROVED L2 Birds.**

If you get them from "HOMEATLAST" it means SATISFACTION!

**ANGONAS, and THE ADJUSTABLE TRAP-NEST FRONT**

(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

**VICTOR P. WILLIAMS,**

Homeatlast Poultry Farm, BEXHILL, SUSSEX

A Small Farm with a Big Reputation.

**Oyster Shell, English or****American Graded****Kent Blue Sharp Flint**Free on Rail; Reduction 1 ton and upwards.  
Send 2 stamps for sample.**F. G. BRANTON, Grit Manufacturer****GREENHITHE, KENT.**

# Cerema

## MARMITE

### for Poultry

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**

## Better Birds

### —more Eggs

THIS preparation contains the important B. Vitamin so essential for the health of Birds. It may be given either in the form of a drink by dissolving in water, or the solution may be incorporated in the mash. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

Wednesday, October 11th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 15. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

"LADY HARDINGSTONE"

*Bred and Owned by*  
MISS D. E. KITCHEN,  
Vicarage Poultry Farm,  
HARDINGSTONE, NORTHAMPTON.



*Record:*  
265 Eggs in 12 months  
and never broody.

# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

## Can Any Firm wish for Better Testimony?

Letter No. 73.

Nolbein House.

SANDOWN, I.W.

Sept. 9th, 1922.

Gentlemen,—

I cannot speak too highly of your White Leghorns. Two hens I have left from day-old I had from you four years last April have been laying all the season just like young ones, also three-year-old ones just the same, and some while they are moulting.

Yours faithfully,

Mrs. E. L. SALT.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

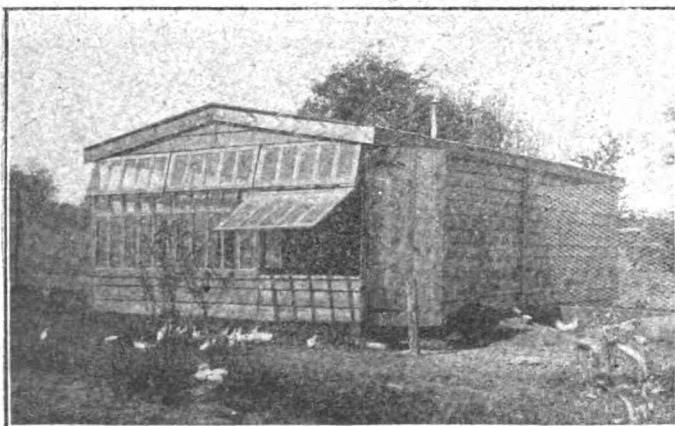
## SANDOWN, ISLE OF WIGHT.

# EXTENSIBLE UNIT BUILDINGS.

*Solve the vexed problem of maximum lighting without draft risk*

**In INCUBATOR, BROODER, LAYING and BREEDING HOUSES**

Extensible and convertible, in 5 ft. sections. Made to your own specifications and ideas if desired.



Brooder with Day and Night Nursery.

Illustration shows a typical Brooder, which can be converted to semi- or extensive laying house.

Made with  $\frac{3}{4}$  in. or 1 in. Panel board.

$\frac{3}{4}$  in. or 1 in. Flooring.

To any length, depth and height.

A patented sash and panel arrangement allows variable lighting for every purpose of the season.

A fully equipped model plant stocked with Best strains may be inspected free.

## W. H. COLT, M.S.P.B.A. M.N.U.P.S. Bethersden, Kent.

1th, 1922.

EGGS.

**FREE LAYING PULLETS.**  
Month's Approval.

**RED**  
March  
Sched.  
240-  
291.

**WYAN-**  
son's)  
m of  
tie's



**HORNS.** Dams 250 upwards,  
Gilpin's 293-egg hen.  
25/- each. Satisfaction  
Guaranteed.

**POULTRY FARM, Ltd.,**  
Edcup, Kent.

**-Lay Strains**  
OF

**WYANDOTTES,**  
(BARBON.)

**LEGHORNS,**  
(PADMAN.)

**and Breeding Hens**

**Strong Vigorous Cockerels.**  
Autumn Delivery.

**and 1921 Hens.**  
and Passed the S.P.B.A.  
Winter Egg Test.

**wards and Particulars, post**  
**free on request.**

**HADEN, S.P.B.A.**

**BY HALL, SEDGLEY,**  
**STAFFS.**

**ANULATED**  
**SS LITTER**  
**POULTRY HOUSES.**

Label Sack containing  
23lb., 3s. 6d.; 2, 5s. 6d.;  
4, 5, 13s. 2 cwt. Bales,  
covered, 15s. All car-  
paid. Cash with order.

**PEAT MOSS LITTER**  
**SUPPLY CO., LTD.,**

erne Wharf, Commercial  
Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE THE QUALITY

4in. x 4in. T.G.B.	7s. 6d.	4in. x 6in. Saw'n Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
4in. x 5in. T.G.B.	11s. 6d.	4in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
1in. x 5in. T. & G.	13s. 6d.	2in. x 1in. Battens	6s. 6d.	3in. x 6in. Battens	40s. 6d.
4in. x 5in. Saw'n Bds.	6s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 5in. W'th'bds.	7s. 6d.
		2in. x 3in. Battens	12s. 6d.		

per 100 feet. CUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mills. SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS,  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks. various  
ages, in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.),  
R.I.R. (s.c.), and Barred Rocks.

Inspection Invited. Cash or Deposit. Tel.: 5073

**QUALITY,**  
**PRICE,**  
**DELIVERY.**  
**3 MAIN POINTS**  
SEND FOR SAMPLES AND PRICES  
**JOHN W. BEVANS & Co., Tangle Rd., Portsmouth**

## READ THIS!

Glengariff, Effingham Road, Surbiton, September 16th, 1922.

"Dear Sirs,—I am very pleased with the result of 6 months' use of MILKO Laying Meal, the birds never tire of their food since I started using it. They have laid well all through the summer, and I am now getting 9 to 12 eggs a day from 15 hens, last year at this time from the same number I had 5 eggs a week. I brought all my chickens up on your chicken, and growing meals, and have had most satisfactory results, fine birds, no sickness, no losses.—Yours, etc., Miss MABEL PATTISON."

The above is only one taken at random from dozens received every week.

YOU, too, will get better results in every possible way if you start to-day to use MILKO foods... the original milk foods for poultry. MILKO Laying Meal is now used on many of the largest poultry farms in the country. Tons sold every week, and repeat orders reach us every day. Remember, that a food based on milk, is safer to use than foods based on any other animal matter. There are many different kinds of foods and condiments that will produce eggs, but you must use a food that will give you a heavy egg yield, and at the same time keep your birds in perfect health, so that they will be able to produce fine fertile eggs and strong healthy chicks in the Spring. For this purpose there is not one other food that can beat MILKO Laying Meal. Prove our claims for this meal by getting a supply right now!

Your young pullets, if they are not six months old yet, need MILKO GROWING MASH now. It is the best food for building fine sturdy bodies, and provides them with the necessary stamina for heavy egg-production during the winter months. Give your laying birds MILKO LAYING MEAL, the greatest egg-producer ever offered to British Poultry Keepers. Test these two foods for yourself. You will never regret doing so, and we know that you will continue to buy MILKO foods in future. Note low prices—MILKO GROWING MASH, 25/6 per cwt.; 4cwt., £4 18s. MILKO LAYING MEAL, 23/- per cwt.; 4 cwt., £4 8s. All Carriage Paid.

**SPECIAL TERMS TO LARGE BUYERS. PLEASE WRITE US.**

GET A SUPPLY TO-DAY.

**MILKO FOOD CO.,**

(Dept. 2),

**Fleet House, Fleet Street,**  
**LONDON, E.C. 4.**





## CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

### "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry. The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

### "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

QUOTATIONS  
AND  
PARTICULARS  
FREE.

*Satisfaction  
Guaranteed.*

## EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922	PULLETS	from	40/-
1921	"	"	12/-
1920	"	"	10/-
1919	"	"	6/-

Specially Selected Cockerels  
from 6/-

\*Phone:—  
6 Chaddleworth.

Grams:—  
"Sonimor, Leckhamstead."

# EGG FARM

LECKHAMPTSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

OUR POPULAR  
PRICE LIST  
AND OTHER  
PARTICULARS  
COST NOTHING

### HE PROSPERS MOST

Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."

You are sure of a genuine deal at

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

HIS  
WHITE WYANDOTTES  
and WHITE LEGHORNS  
are unbeatable 'as layers of  
large eggs, and plenty of them.

Send 1d. stamp for Catalogue and list of  
Prices. Fully Illustrated, it is worth having.

### WHO SERVES BEST.

Advertisers are kindly requested  
forward their Copy at once for  
S.P.B.A. ANNUAL REGISTER

### "An Egg in Every Ounce."

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is  
the best Clover Meal on the market  
and is unequalled for egg production.

"Klovera" is the only Clover Meal  
used in the Laying Test of the  
"S.P.B.A." and "Daily Express"  
Competition.

Price, 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England

## ROSSLYN & Co.

30, KENNINGTON PARK ROAD  
LONDON, S.E.11.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, October 11th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Osceles, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Osceles, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

the visits to the farms, keeping in touch with retailers, would be a big tax on the energies of any one man, without the additional work of advising as to buying foods, etc. The local representative would have his hands pretty full without this sort of work, and it is more than possible that over-head charges would swallow the extra profit which is expected. Our correspondent goes on to say:—"You may perhaps refer me to the 'British Egg Producers.' I have already taken a share in it, but I find their proposals very poor from a financial point of view. They offered no better terms a short while ago, if as good, as the local market."

In these few words he has shown how little he appreciates the true spirit of co-operation, how little he understands the aims and objects of British Egg

## THE DAIRY SHOW,

Agricultural Hall, Islington.

Tuesday, Wednesday, Thursday and Friday, October 17th, 18th, 19th, 20th.

**The S.P.B.A. STAND is  
No. 151 in the Gallery.**

THE ANNUAL GENERAL MEETING will be held in the CLUB ROOM at 12 o'clock on THURSDAY, OCTOBER 19th.

Mr. J. GERARD KITSON will preside.

## EDITORIAL.

### THE PRESENT POSITION.

Our "Hampshire" correspondent has supplied us with a definition of the "purely commercial" side of the industry, or rather he has accepted that of 'Ex-Airman,' who suggested that a club or union is needed to prevent the producer being exploited by the middleman. "Hampshire" suggests that a good union would concentrate on getting its members a fair share of the profits. Local representatives could keep in touch with the retailers in the different districts, visit farms, and advise members as to the best marketing of produce, the best and cheapest buying of foods, etc."

On paper this seems a very simple proposition; the fancy that in practice it would be unworkable. The local representative would have to be an exceedingly capable man, he would command a high salary,

Producers, and why the suggested club or union would fail, unless different ideas than this animated its members.

The commercial side of the industry needs organisation; of that there is no doubt, but no attempt at organisation will be successful unless it has the close co-operation of those engaged in it. Our correspondent has taken a share in "British Egg Producers," and he has looked for an immediate return in an enhanced price for his eggs; as this is not forthcoming, he proposes to form a new society or club. He has not even compared the average price for 12 months offered by the Society with that for 12 months obtainable in the local market; he has not gone outside the local market and compared the price offered by the Society with those offered in other markets. Another Society is necessary because he, as an individual, has failed to get a higher price for his produce. He will pardon our saying so, but he is taking a very narrow view; we cannot hope for success in either co-operation or

organisation if we do not take the broad view of the prosperity of the industry rather than that of the individual.

The object of "British Egg Producers" is the organisation of the industry, at least the marketing side of it; it has not been in existence twelve months, it will need the active support of its members if it is to do what it has set out to do. It will give "Hampshire" the advice and information that he needs, and the encouragement. In return he must give it his loyal support, and remember that there are times when any local market will give a better price than the London market. These prices are often governed by local conditions. "British Egg Producers" will give a better price than the AVERAGE markets in the country. It is too much to expect it to give a better price than the BEST markets in the country.

The Revd. M. O. Boyd puts his finger on one of the weak spots in our ranks in the fight we are waging with the foreigner. He tells us he has seen eggs gathered from the hedges cleaned and sold to the higgler. These eggs find their way to the London market, they are one of the many causes which have induced the egg merchant to encourage the foreigner. The others are that the foreigner packs better, grades better, and markets his eggs in a cleaner condition; further, they are more easily handled.

"Middlesex" gives us another example of a firm which had to stop supplies from the West of England because of the high percentage of bad eggs, but he is mistaken; he does not know the firm to which we referred on September 13th.

Mr. N. S. Wood comes straight to the point when he suggests that it would be well to investigate the reason the foreigner is able to undersell us in our own markets. Perhaps a full comprehension of that would enable us to fight him on surer ground. But Mr. Wood's suggestion that British eggs should be marked would not help us unless the foreign egg is marked; the position indeed might be worse, as the foreign egg might be easily stamped and sold as British.

A. C. C. S. asks: "Why should foreign competition be conspicuously labelled UNFAIR?" We should not call it unfair when we are knowingly competing with the foreign egg, but it is **RADICALLY UNFAIR to CONSUMER AND PRODUCER ALIKE** when the foreign egg is loaded at our ports on motor trolleys, rushed to certain farms (and there are many of them) and then re-packed and sold as English New Laid. If A. C. C. S. wants information on this point let him get in touch with some of the Lancashire representatives of the National Poultry Council. This game is played at nearly all the big ports—London, Liverpool, Bristol, or any other. Then we have some of the big multiple shops which habitually mix the foreign egg with the home product. In the attempt to "boom" the Chinese egg last year, the importers boasted that these eggs, which could have been sold at 2½d. each, were retailed as English new laid at 4d. The retailer reaped the profit, the English producer and consumer suffered, the price of eggs was thus kept up artificially by the

retailer who was making profits out of all proportion to those made by the producer. By this means the retailer depressed the demand for the English egg, (1) by fraudulently substituting the foreign egg for the English; (2) by obtaining exorbitant profits and checking the demand.

We do not agree with A. C. C. S. that the public will stand aghast when they see the foreign egg marked, nor do we anticipate that the marking of foreign eggs is going to result in **greatly enhanced** prices for the home product. The public will judge both on their merits, and it will be as well that producers should remember that and study more carefully the marketing of our eggs—we should remember that we shall be judged not by the good eggs marketed, but by the bad, and that the commercial egg farmer who carefully grades and packs his new laid eggs is likely to suffer considerably from the public estimation from the collections from the hedges and ditches by the higgler.

In conclusion, may we say that it seems to us that the most important points we have to consider at the present time are: (1) Production at the lowest possible cost—for this reason we have ventured on previous issues to urge the need for greater efficiency; (2) to sell our produce at a popular price—no clamour for prices which will make the egg a luxury during the greater part of the year; (3) endeavour in the great towns at least, to get into direct touch with the consumer.

Sir Arthur Griffiths-Boscawen, speaking at Cowbridge, said: "One thing from which farmers and consumers alike were suffering was the excessive profits of the middleman." That is true of our own industry.

We might also suggest, that the individual should exercise a little more enterprise in looking for his markets, and not accept the first price he is offered. We know of one case where a certain firm, offering three different prices to three different farmers within a radius of a mile.

### "BOODLING."

Mr. Boodle sat in his chair by the fireside, in one hand he held a tea-cup, in the other a saucer, and he was industriously beating a steady tattoo on either side of his head with these two useful domestic articles. What his object was we cannot say, we only know that it was a habit of his in certain moods, that he had done so before, and will assuredly do so again. Whether or no he was endeavouring to imitate the lion which said to lash itself into a frenzy of rage by beating its tail against its sides, we cannot say—it is possible. All we know is that at the conclusion of the performance Mr. Boodle was invariably in a perfect frenzy of rage, which he vented on Mrs. Boodle if she was fortunate enough to obtain refuge with a neighbour at that time.

Mr. Boodle was not a variety entertainer. He gave these performances before. Mrs. Boodle found them a trifle monotonous, and always took a seat near the exit as possible. He invariably began by treating her to a list of his virtues, many of which his most intimate friends did not know he possessed. Curiously enough he constantly referred to himself

kind-hearted man like me " that seemed to be chief virtue, and the one in which he took most pleasure. At the end of the performance he invariably pronounced his possession of this virtue in a frenzied l, and then Mrs. Boodle—fled.

These little outbreaks of Mr. Boodle's were the cause of bad trade. When he was convalescent, which was generally about 10 days later, he attributed them to the effect of bad trade. He cursed the Government and cursed the foreigner—it was easier to do so than to dress the shop window—although it is possible that the latter would have been more conducive to a revival business. At Muckhampton men of his type are called " Boodlers," and the individual who curses his tune, instead of trying to mend it, is said to be Boodling."

Now, Ladies and Gentlemen, there is a great deal of " Boodling " going on at the present moment. Times are not quite so good as they were a year or two ago. We haven't things all our own way now. We are cursing the Government, the foreigner, and the societies, all of which is a pretty futile method of mending matters.

We should be better occupied in trying to realise the urgent necessity of Research and Experimental work. We are a young industry, groping with a match where we want a searchlight, and the searchlight is within our grasp. Let us give up " Boodling," and grasp it—we are a half-hold. £3,905 0s. 0d. has been raised towards the sum of £6,300 required for us to possess the N.P.I. We want (1) Better average production. (2) More economical feeding. (3) A lower mortality. (4) Better hatchability. (5) Light thrown on the commercial side, i.e., establishment costs, production costs, marketing, etc., and for this we want the National Poultry Institute.

The highest bid for the 303 egg White Leghorn pullet is £18 18s. 0d. from Mrs. Florence Kent.

Mrs. Hunter's pen of White Wyandottes have been sold for £4 15s.

Mr. Lester Spurgeon's pen of 10 White Leghorns and pedigree cockerel have been sold for £5.

Mr. A. E. Giblett, who advertises Rhode Island Red pullets in this week's issue, offers the amount received for the first three sold to the N.P.I. Fund.

Two sittings of Light Sussex eggs, from a pen averaged 56, from November 1st to February 1st, have been sold to Miss Buchanan for 40s., offered by the Misses McCurt and Woolnough, delivery after January 15th.

A breeder who says he does not want a cheap advertisement, and so asks us not to mention his name, has 50 White Leghorn Barron Cockerels for sale. They are March hatched, and are bred (second generation) from a pen which took second place in one of the American competitions. The present price is 15s., and we will give 2s. 6d. for each bird sold through us to the National Poultry Institute Fund. The birds are all very healthy and well developed. In December the price will be 21s.

GREAT SHOW AT LEICESTER.

The Proprietors of our esteemed contemporary, "Poultry News," are organising a Great National Poultry, Pigeon, and Rabbit Show, to be held in the Minor Training Hall, Aylestone Road, Leicester, on November 1st and 2nd. We note that several of the

specialist clubs are holding their club shows there, including the British Minorca Club, the Australorp Club, Black Wyandotte, White Leghorn, Sicilian Buttercup and others. Rhode Island Whites are catered for, and there is a class for the Black Marias. Utility Classes are well catered for, and a " Utility " Cup, value 10 guineas, is to be awarded to the member of the Poultry Club who shows the best bird in the Utility Classes possessing true breed characteristics. The cup becomes the absolute property of the winner when he wins it eight times. The prizes are numerous and valuable, and the entry fees small. The Secretary is Mr. G. T. Barton, 8, Chatham Street, Leicester.

OUR FRONT COVER.

" Lady Hardingstone," the Rhode Island Red hen, depicted on our front cover, is the property of Miss D. E. Kitchin, who has been very successful as a breeder of Reds, White Wyandottes and Leghorns. Miss Kitchin won the Gold Medal with Reds in the National Laying Test, 1919-1920, and in the Northern Laying Test in 1920-21. The first win was a remarkable one, as out of the 1,027 eggs laid by the five birds, ONLY 14 were second grade. The pen had a lead of 149 eggs, and beat all sitting varieties. These hens were mated to a son of " Lady Hardingstone," who laid 265 eggs in 12 months, and 301 in 14 months, and never broody. She was by the grandson of a hen which laid 230 2½oz. eggs in the Northern Laying Test, Miss Kitchin's pen led all the Reds by 119 eggs. This pen is mated to a cockerel whose dam has a guaranteed trap-nest record for four years of 291, 277, 244, and 233 eggs.

Miss Kitchin fully realises the importance of stamina, and is very keen on the size of egg. She is also trying to a great extent to breed broodiness out of her Rhode Island Reds; the advisability of doing this has been questioned. The majority of the Reds on the farm have never been broody.

Her pen 20 in the " Daily Mail " Test held second position at the end of the 11th month amongst the Reds, and 20th position out of the 190 pens competing.

" Lady Hardingstone " is a typical laying type, with a remarkably good head.

NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

Carried Forward ... £740 9s. 2d.

	s.	d.
W. B. Ellison ... ..	5	0
F. Bowers ... ..	7	6
Albert D. Tobler ... ..	5	0
J. S. Dicker (Discount) ... ..	1	0
E. E. Catterall ... ..	5	0
H. R. Hunter (2nd donation) ... ..	34	6
W. B. Farrar ... ..	2	0
H. Rawlinson ... ..	5	0
Walter Taylor ... ..	2	6
E. Corlett ... ..	2	6
G. F. Taylor ... ..	5	0
Com. S. G. Reddie ... ..	2	6
" Assistant " ... ..	5	0
W. B. Burnby ... ..	10	0
H. C. Few ... ..	1	6



	s.	d.
F. F. ... ..	10	0
Capt. H. C. Tree ... ..	5	0
Edwin Rose ... ..	20	0
A. E. de W. Waller ... ..	10	0
Mr. and Mrs. F. G. Kelly ... ..	5	0
F. G. Payne ... ..	2	6
F. Last ... ..	7	6
D. Dineen ... ..	5	0
E. Bruce Stratton ... ..	5	0
E. Hulme ... ..	2	0
M. M. Benussi ... ..	2	6
W. Foulds ... ..	5	0
Chas. Shaw ... ..	5	0
G. Dearden ... ..	5	0
Mrs. L. Fear ... ..	2	6
T. Haworth ... ..	54	6
Mr. Voce ... ..	12	0
Liverpool ... ..	7	0
L. T. Moggridge (2nd donation) ... ..	10	0
Arthur Goddard ... ..	2	6
H. W. Hobden ... ..	2	4
Louis King ... ..	7	6
R. Siegel ... ..	10	0
G. V. Thompson ... ..	5	0
F. Wm. Derbyshire ... ..	3	4
Clifford F. Buxton ... ..	30	0
John J. Robinson ... ..	2	6
Albert Seddon ... ..	5	0
Cyril R. Payne ... ..	10	6
P. Kevany (Discount) ... ..	1	6
Mrs. J. A. Wallace ... ..	5	0
Alfred Hilson ... ..	7	6
Mrs. Hadley ... ..	10	0
J. H. Duckett ... ..	2	6
P. Bowler ... ..	10	0
Miss M. Mortleman ... ..	5	0
Mrs. C. Hunter ... ..	10	0
Wadhurst Branch ... ..	10	6
Jas. S. Miller ... ..	5	0
Rowland Cooke ... ..	10	0
Total ... ..	£761	14 4

### Indian Runner and Khaki-Campbell Ducks.

By A. HAROLD PAINE—Thirty-Third Article

Scientific poultry breeders the world over owe so much to the great scientist whose centenary is being celebrated this week, that I am sure my readers will be interested in the following article which appeared in last Thursday's "Times"—

#### "MENDEL."

A century ago GREGOR MENDEL was born to poor parents in a Bohemian village. In due course he entered the church, succeeded in his profession, and earned a local memory in the long roll of wise and pious Abbots of Brunn. But in the cloistered garden of the monastery he

made experiments on the crossing of plants and meditated on the results to such purpose that his inferences, neglected in his lifetime, have given mankind a new control over Nature—the theoretical and practical key to the processes of heredity now known to all the world as Mendelism. It had long been suspected that the qualities of the offspring were not a chance blending or assortment of those of the parents. GOETHE, in a famous phrase, distinguished between gifts from the father and from the mother, and instances of the actual transmission through many generations of one salient character had long been noticed by observers of mankind and breeders of stock or plants. On the theoretical side, moreover, there existed a considerable literature dealing with the imagined qualities of a material bearer of hereditary traits. But MENDEL was the first to prove that pairs of qualities, like the tallness and dwarfedness of the stem of plants, or the smoothness and corrugation of seeds, had a physical existence in the ovaries and pollen grains, and followed a definite course, susceptible of prediction, through the chains of individuals which form the generations of living beings. Like the atoms and molecules of chemistry, they had their exact numerical relations and their attractions and repulsions, capacities of lying dormant or of expanding into the adult characters we recognize. Doubtless some exaggeration by the eager workers on the new lines of inquiry has tended to mislead the public mind, supposing that the stock is more important than the environment, that mental, physical, and moral qualities will soon become as easy to select or to eliminate as the rose-combs of chickens, or the pink eyes of fruit midges. But that is the way of every new light: it not only illuminates dark places of ignorance, but dazzles the eyes of its employers. The truth is that Mendelism has led biology and many biologists out of the barren region of deduction, back to the fertile methods of experiment. DARWIN himself was, above all things, an observer and experimenter; his great theory sprang straight from the study of Nature; but many of his disciples have treated it as a master-law under which unruly facts must be compelled into obedience. Mendelism, into whatever airy phantasies it may have been spun, had the same solid and humble origin. It is one of the misfortunes in the history of science that DARWIN, working at Down, in Kent, and MENDEL, working in the monastery of Brunn almost simultaneously, never got together."

\* \* \* \*

The Second Great National Laying Test at Bentley is now concluded, and whilst I hope to deal fully with this when I have received the complete official results of the twelve months, the brief details already published show that with the exception of "Magpies," the average for every breed of ducks was higher than the average attained by any breed of fowls entered, and a pen of Khaki-Campbell, bred and owned by Barbara Raye and Captain Pollen, C.B.E., R.N., of Pedigree Poultry Farm, Seaynes Hill, near Ward's Heath, Sussex, was first of the 368 pens of breeds competing, the five birds having produced a total of 1,188 eggs—an average per bird of 237.60—which the Gold Medal was awarded. The Silver Medal goes to Captain R. A. Long, whose pen of five of the same breed produced 1,140 eggs—an average of 228.00 per bird—and the Bronze Medal to E. Broome Wratten, whose five Coaley Fawcs produced 1,106 eggs—an average of 221.20 per bird. In the pullet section the three highest pens of White Corns and White Wyandottes produced 1,018, 1, and 997 eggs respectively.

(To be Continued).

## Answers to Queries.

By the EDITOR.

### DUCKS.

Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMES.

"DIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13. Eggs should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover. Letters are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Returns on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Letters by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership. Questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

W. (New Denham). Whatever the post-mortem revealed, I am confident that the condition of the birds was not brought about by an excess of animal food in the mash, even if they were on a quarter of an acre ground, and insect life was abundant. Except when I was forced for a forcing mash I never advise more than 10 per cent. Fish Meal. I use this percentage on my own flocks, and I never get these results, although the birds have plenty of range. On the Commercial Egg Farms it is quite common to use 25 per cent., which I consider very wasteful, as the birds cannot assimilate it, and it probably is injurious in such quantities. In America they feed a much higher percentage than is

customary here. I cannot give you a remedy for the trouble from which your birds are said to have died; the mash is correct. For a tonic for the moulting birds dissolve 2ozs. of sulphate of iron in a quart of water, and add one teaspoonful to every pint of drinking water. Continue this for a fortnight or three weeks.

F. G. (Burnley). This is a perfectly good sample of Fish Meal, as far as I can judge, provided there is not an excess of salt, which I do not think likely; it is extremely good value at 13s. per cwt., and you are fortunate to obtain it at that price. The method of manufacture is that usually employed. You should endeavour to get a guarantee that the salt does not exceed 4 per cent.

H. M. (Oxon). Size of egg is not much affected by feeding, only in so far as the development of the bird is concerned. Of course, a heavy producer may lay a small egg because of a deficiency of body fat caused by over-production. In that case we might improve matters by feeding a more concentrated mash, but that would not occur at this season. I think in your case the eggs will soon improve in size, but pullets often lay small eggs if they are a little on the light side. I think you would be well advised to handle your birds, and if you find them a little light, feed a more concentrated mash.

H. E. B. (Thornton Heath). Your mash is rather a forcing one, that accounts for the shell-less eggs. You made a mistake when you increased the gluten because of its lime content. That, so far, is all right, but you forgot its high protein content which made the mash more stimulating. If you had wanted more lime you should have increased the Alfalfa. Now make your mash: 3 Bran, 3 Alfalfa, 6 Middlings, 2 Gluten, 2 S.G.O., 1½ each Dried Yeast and Fish Meal.

Beginner (Norfolk). You may give chicks Epsom Salts if the need arises, but castor oil is too drastic a remedy. My remark applied to your treatment. You had chicks which had drooping wings, and showed lack of vitality, and you gave them the salts and castor oil, when the best policy would have been to wring their necks, or if you preferred to treat them they should have had a tonic and nourishing food. It is quite natural that the pullets should be moulting now, but you must not expect them to lay in a fortnight's time; they may start in December. (2) You could mate a cockerel to the pullets if he were a well-matured, vigorous bird, but he should be February hatched, and from a dam with a good record. (3) S.C. means single comb, L2 second production factor. (4) No, the chick is not crop bound. If it is healthy do not kill it.

S. (Kent). If it is an auction market, the auctioneer will sell for you, and will charge you a commission. If you send them by train, and notify the auctioneer that you are doing so, he will collect the eggs from the station.

A. T. (Babbacombe). Yes, Khaki-Campbells can be kept without swimming water, as well as Runners or other breeds.

G. F. H. (Hatfield). I hardly consider your proposed purchase of 500 pullets, three months old, at 8s. 6d., a good business proposition. The price is not excessive, but the point is whether it is advisable to buy as many as 500. Before these came into production they would cost you at least 12s. 6d. each, and I cannot see that at that price you would see a return for your outlay in eggs. Of course, you may be thinking of your future breeding stock, but you would do better with 200, and buy a few decent breeding hens in addition. You say your idea is that poultry farming should be specialised into Pedigree Stock Breeding, Pullet Rearing (that is rearing pullets to three or four months old, and commercial egg farming from pullets bought at three or four months old), and you want my opinion as to the probable financial result, if you sold the lot nine months after they had started laying (or 12 months). If I understand you correctly, I think you would be very much out. No commercial egg farmer can buy a pullet as cheaply as he can rear it, and as the margin of profit in egg production is so small, he would certainly see no return for his initial outlay. The sum of the question, of course, is whether your pedigree stock-breeder can sell his three or four months pullets to the egg farmer at an economic price. I don't think he can.

Layman (Harleston). The chief objection to feeding Black Oats is that the birds do not eat them so readily at first, and as a rule they are not so nutritious as the White, but the sample you send is a good one, and you might easily compensate for its deficiency by feeding a little more Wheat or Maize.

W. J. D. (Ramsgate). This is only a fair sample of feed oatmeal, not good enough to replace Sussex Ground Oats in the mash. If you can get a good sample, you could make your mash: 2lbs. Bran, 4 Sharps, 1 each Feed Oatmeal, maize Germ and Fish Meal. I am interested to hear that you have successfully reared and fed your stock with the minimum amount of grain; there is no doubt we have been using too much. (2) I don't know that there will be any greater demand for naturally hatched flocks than those artificially hatched; of course, improved stamina is an asset.

I. O. (Cefn). You should not use Germ and Gluten Meal in the same mash. I have given the mash in which they should be used several times in "Eggs." I give it again: 2 lbs. Bran, 1 Alfalfa, 4 Middlings, 1 each Sussex Ground Oats, Maize Gluten, and Fish Meal. That is the layers' mash. For the breeders', substitute Germ Meal for Gluten. (8) If I did not think Fish Meal impregnated with Cod Liver Oil economical I should not advise it. (B) No, I don't think the spice you name economical if people would only think for themselves they would not be duped into buying it. (C) I shall be able to express an opinion on this definitely later on. (3) The Marmite should be used with the animal food, it is not fed for its protein content. (4) I cannot express an opinion as to whether the price asked for the Black Leghorn is justifiable or not as I have not seen the pedigree.

H. H. G. (Prestbury). Moulting is not a "habit" neither is it contagious; therefore, if pullets moult with moulting hens it would not follow that they would moult, neither again should I think it necessary to remove a moulting pullet from a flock for fear that the others would contract the "habit." I have had three or four moulting pullets in a flock of 100, but I have never known the rest to contract the "habit." Pure coincidence again I suppose. I would not expect to breed better layers from exceptionally high-fecund ducks than I would from those with moderately good records. The exception rarely repeats itself. I said at Cheltenham that in breeding high-fecund pullets I would prefer hens with records of 180-200 than those with records of 250-300. I would not say whether a duck would be a good breeder or not on her record alone; we have a test for that, and there is only one test—the breeding test, but if you mean would I include such a duck in the breeding pen, I should say yes, as she ought to breed some good drakes; we do not yet know whether the bird which moults later of two which are early hatched and moult early is the better breeder, but I should be inclined to think so. I do not think that 2b. compares well with the other

Me (Sevenoaks). The fact that the Rhode Island Reds are not of an even colour does not indicate impurity, it simply indicates that no effort has been made to breed them to colour, a great fault with utility breeds. They are a very hardy bird, and could not have a better variety for such a high altitude. (3) You will be safe with advertisement "Eggs." I am sorry we cannot separate the products offered.

F. B. (Moldgreen). Thanks for your appreciation "Eggs." (1) I think I have several times explained the difference between Maize Gluten, Maize Germ and Maize or Indian Meal. The two first are by-products from the manufacturer of starch from maize.

Gluten Feed has the following analysis:—Protein, 24.0; Carbohydrate, 56.0; Fats, 3.0; Fibre, 4.0; Ash, 3.0.

Germ Meal:—Protein, 13.0; Carbohydrates, 70.0; Fats, 5.1; Fibre, 2.6; Ash, 1.4.

Maize Meal:—Protein, 9.2; Carbohydrates, 65.0; Fats, 5.1; Fibre, 2.6; Ash, 1.4.

Maize Meal is the whole grain ground to meal.

(2) In reply to your inquiry the journal in question condemning Fish Meal as being responsible for causing broken yolks and for non-hatching eggs, maize and by-products as being too heating and not producing eggs in profit, bran of no feeding value, and cod meal unnecessary if vegetable protein is provided in dry mash unprofitable except in favoured regions, and in good weather; chicks reared on it in poor conditions for egg production, not safe to feed the necessary protein, and throwing too much strain on the digestive organs.

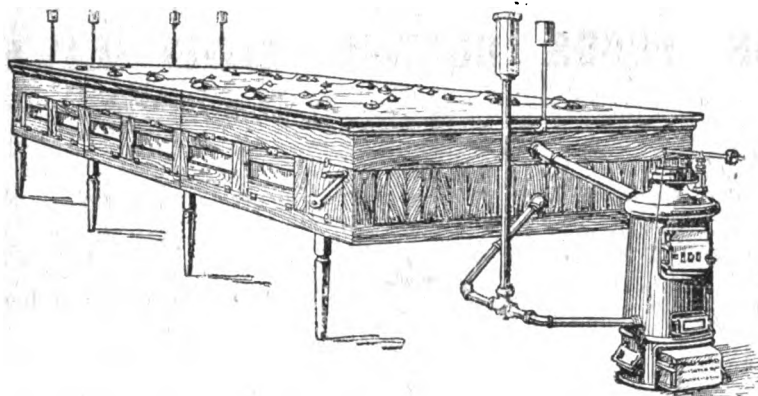
My dear Sir, you know the journal in question is a trade journal, and that the firm who publish it are vendors of foodstuffs at high prices. They sell animal protein, for instance, at about 60 per cent. higher than a good sample of fish meal. All the rest of what they write is absolutely disproved in practice every day.

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

### SPECIAL LIME STONE GRIT. NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits. (Reg.).

3s. 6d. per cwt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbrick," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts

Samples Free. Six Grades

Liberal Commission Paid.



The Henman says "It's It."

### Samples of our CHAMPION POULTRY FOODS for EGG PRODUCTION.

Can be inspected at our

## STAND No. 165 (GALLERY)

at the

## DAIRY SHOW,

where we shall be pleased to see our friends, and solicit enquiries.

If unable to attend write for Samples and Price Lists to:-

**Wm. Brinkler & Sons, Ltd.,**

Poultry & Pigeon Food Dept.,

**5, CLAPHAM GRANARIES,  
LONDON, S.W.4.**

Telephone: Battersea 211.

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.  
WHITE LEGHORNS.**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

**STOCK COCKERELS.**

Full Pedigree supplied with every bird.

Speciality - Bred from pen averaging over 400 Eggs in 2 years. From 18/- each.

A few Pullets all ages from 12/6.

Recorded Breeding Hens.



# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note: OUR FOODS CONTAIN COD LIVER OIL.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ... ..	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ... ..	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ... ..	17 6	Poultry Mixture ... ..	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ... ..	20 0	Poultry Oats (Clipped) ... ..	17 6
Alfalfa Meal ... ..	22 0	Kibbled Maize (Screened) ... ..	14 6
Green Clover Meal ... ..	18 0	Bearall 1st Chick Feed ... ..	24 6
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ... ..	21 0	Thryvon 2nd Chick Feed ... ..	22 6
Meat Meal (65 per cent. Alb. and Fat.) ... ..	23 0	Matus Chicken Mixture ... ..	20 6
Chick Rearing Meal (Special), impregnated with 14 per cent. Cod Liver Oil (no milk required) ... ..	23 0	Yeast ... ..	19 6

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
**Mr. BRUCE WILCOCK, A.P.F.D.,**  
as our Poultry Expert. Should you be in  
any difficulty we will be pleased to assist you.  
Our information bureau is free to all.

# E. DIXON & SONS,

## ST. ALBANS, HERTS.

### NOTE NEW PRICES.

#### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.
Dried Skimmed Milk ... ..	24 0
Sussex Ground Oats ... ..	16 0
Maize Meal ... ..	11 0
Maize Gluten Feed ... ..	12 0
Pea Meal ... ..	16 0
Bean Meal ... ..	16 3
Meat Meal (Fine Ground) ... ..	22 6
Fish Meal (Best White) ... ..	23 6
Biscuit Meal (Fine) ... ..	22 6
Clover Meal ... ..	18 0
Broad Bran ... ..	12 0
Middlings (Best Fine White) ... ..	14 0
Middlings (English) ... ..	12 0
Feed Wheat (Best English) ... ..	14 0
Feed Oats (Best English) ... ..	15 0
Kibbled Maize (Sifted) ... ..	12 0
Flint Grit ... ..	5 0
Limestone Grit ... ..	5 0
Oyster Shell ... ..	8 0
Oockle Shell ... ..	4 6
Roll'd Wheat (for Chicks) ... ..	15 0
Dried Yeast ... ..	20 0
Pinhead Oatmeal ... ..	26 0
Whole Oat Groats ... ..	26 0
Broken Rice ... ..	16 0
*No. 1 Chick Feed ... ..	22 0
Mash for Laying Hens ... ..	16 0

(Both the latter are Mr. Tom Newman's Recipes.)

FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX.

## GREAT BARGAIN!



Only **£5** Free on Rail.

This house is 9ft. 0in. x 5ft. 0in. x 6ft. 0in. high, two sliding shutters and attendant's door in front, exit hole in end, drop-board and perch, length of house, roof felted, creosoted, fitted with strong lock, made of selected lin. match-boards, on strong framework.

Extras—FLOOR, 15/-; NESTS, 16/-; if in 2-in MATCHLINING, 10/-

**SHIPLEY FIELDS POULTRY FARM,**  
**SHIPLEY, YORKS.**  
Phone: 521 SHIPLEY.

### REDUCED PRICES

## CLARK'S PURE SUSSEX GROUND OATS

GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Mill  
process.

7lb. Bags	...
12lb. Bags	...
28lb. Bags	...
56lb. Bags	...

PRICES PER CWT.

1 cwt.	...
3 cwt.	...
6 cwt.	...

Carriage Paid nearest Station  
England and Wales.

Bags included. Cash with order.  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd**  
56, HIGH STREET,  
LEWES, SUSSEX.

October 11th, 1922.

EGGS.

# AT THE DAIRY SHOW OCT. 17, 18, 19, 20 STAND 185

IN THE SOUTH GALLERY YOU WILL FIND THE FOLLOWING EXHIBITS:—

## NEW, CHEAP and WONDERFUL INCUBATOR “C.A.S.H.” SAFE INCUBATOR

AND WHICH HAS OFTEN HATCHED ONE HUNDRED PER CENT. DRIED CHIPS ARE ALMOST UNKNOWN IN THE

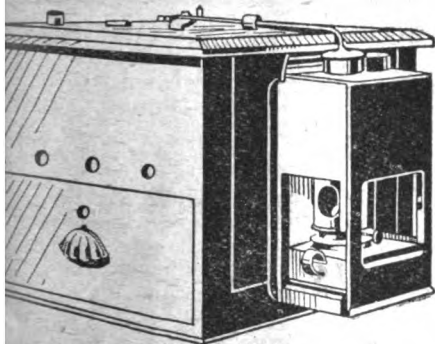
WHICH IS PROVISIONALLY PROTECTED

**£3 7s. 6d.**

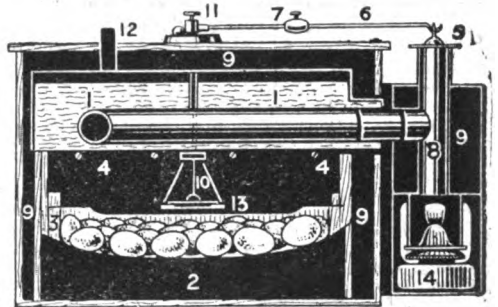
FOR 50 EGGS.  
CARRIAGE PAID.

**HOT WATER TANK  
MACHINE**

AND MADE BY MY OWN TINSMITHS,  
WHICH ARE SKILLED FOR THIS  
PARTICULAR WORK.



SHOWING EXTERIOR.



SHOWING INTERIOR.

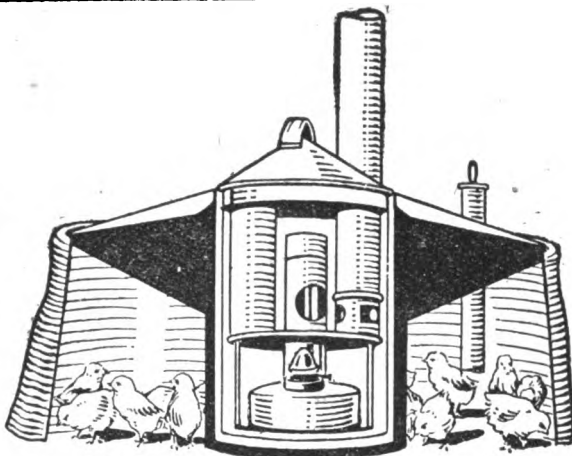
## THE “PIONEER” SANITARY HOVER

### THE SCIENTIFIC

struction of this Hover is so simple  
at a child can work it, and under-  
stand it.

will be observed from the many  
ustrations of so-called Cheap Hovers  
ertised that one appears to be as  
d as another.

is only when the poor victimised  
chaser finds himself landed with a  
le tin lamp worth about 1/3, that  
neither turn up nor down, that he  
lised his mistake. The PIONEER  
VER is also made at my own works  
very skilled men, and there is  
hing left undone to make them as a  
ndard article the best by far on the  
rket.



INTERIOR OF HOUSE SHOWING CHICKS.

The 100 to 150 size Hover is

**Sold at £2 10s. Car. Paid**

This will be shown at the Dairy Show  
in one of my Small Unit Houses—7ft.  
long, 5ft. wide, specially constructed for  
this purpose, the outfit as shown. These  
will come out at £10 10s. 6d. This house  
is made of best match boarding, and  
then lined with 3-ply, and is perfection  
itself. I am also making them as  
follows: 50 to 70 Chick Hover, with a  
complete 5ft. x 3ft. house, also lined,  
£6 10s. 6d., and Large Hover, with a  
6ft. x 4ft. House, lined, £8 2s. 6d.  
They are the latest in small Unit  
System, and which was introduced by  
me at the Crystal Palace last year.

ALL GOODS ARE CARRIAGE PAID.

SQUARE POPULAR HOUSE, FAVOURITE HOUSE, AND A WHOLE CONSIGNMENT OF MY NOTED GALVANISED IRON GOODS WILL  
BE SHOWN. MY REPRESENTATIVES ARE INSTRUCTED TO GIVE ALL THE ASSISTANCE POSSIBLE TO BEGINNERS, AND I HOPE TO  
BE ON THE STAND MYSELF THE WHOLE FOUR DAYS.

I AM RECEIVING ENQUIRIES FROM ALL PARTS OF THE WORLD, AND EXPORT ORDERS WILL HAVE MY BEST ATTENTION.

## A. SYBENHAM HANNAFORB, M.S.P.B.A.

The South of England Poultry Yards and Appliance Works,

**HAMWORTHY JUNCTION, DORSET, ENGLAND.**

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 60 WHITE LEGHORNS 1922 PULLETS.

For Immediate Disposal.

April hatched. Cam-Darracott strain. Will make splendid birds, and should commence laying towards end of month.

18/- Each, or £50 the Lot.

Carriage paid. Approval against remittance or deposit.

Crates to be returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.  
QUENIBOROUGH, near LEICESTER

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

### Mr. Cecil L. Byrne,

Gives Instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

## FLUID **IZAL** POWDER

### DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

IZAL FLUID.

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

thousands of poultry-keepers, so we need not enter into all that. If plenty of green food is available clover meal is not necessary in the mash, but we do not feed clover for the protein, but for the mineral salts. The firm talk of "stress on the digestive organs," and sell at 35s. a cwt. a chick feed containing peas, lentils, dari, millet, etc., in fact every grain which is difficult of digestion.

G. K. (Dane Hill).—You ask what is the harm in breeding from February and March hatched pullets. There would be no harm in breeding from the Light breed pullets, such as Leghorns, etc., nor for one season does any harm arise from breeding from healthy and well developed birds if they are suitably mated and have not been forced for excessive egg production, but "never breed from pullets that are from pullets bred." It will not weaken the stamina of your stock if you mate them to vigorous February cockerels, but don't mate them until they are 10 months old.

W. E. (Fleet). You should pack samples a little more securely. I am not sure whether they had all arrived or not, as the package had burst. The bran is a fair sample, but 10s. a cwt. is a high price. The Middlings are an average sample, the Fish Meal I do not like, the Gluten Feed contains a very high percentage of offal. The Ground Oats are good. You should give the pullets 2½ ozs. of the mash weighed dry, and add another pound of Middlings. Don't increase the Fish Meal, as you have already enough. It would be better if you gave only 1½ ozs. of grain per day. If the injured cockerel fully recovers there is no reason why you should not mate him next season.

R. F. S. (Tatsfield). Chalk would not be an efficient substitute for limestone grit, as it only contains 56 parts lime, as compared with 90 in a good sample of grit, but if you have found it give good results I should continue it. (2) Maize Gluten Meal is difficult to obtain now, as it has become a practise to mix it with ~~corn~~ and sell it as feed, so that I am referring to feed when I say Maize Gluten. In many samples there is far too much of the offal. (3) The Glevum. The percentage hatch is rather higher in the smaller machines, because there is a better distribution of heat over the egg drawer. I think a 240-egg size would be the best for your purpose. (4) No, it is not detrimental to chicks to run on bare earth, or where Lucerne is growing. (5) The formula was only intended for breeding stock. If full advantage is to be gained by it, it should be fed from now onwards.

E. R. (Cambridge). I have no doubt you are busy, but so am I, and so are most people, so please don't make that plea again when writing for information. I have had the greatest difficulty in deciphering your letter. The unsatisfactory growth of the pullets is due to overcrowding. If you reduce the number in the house to 10, there is some chance of their developing.

#### DUCK QUERY.

"Weeds," Wigan, has one drake runaway from a valuable sitting of eggs, and desires to breed from it next season, but, and here is the trouble. This single drake was reared with a lot of chickens; and now if put among the ducks will not associate with them, and

pires for its old companions. I am asked what can be done! Well, "Weeds," I am afraid there is only one thing for it you must harden your heart and use stern measures. There are two little points to be observed to make the severance from his beloved chickens easier for the poor orphan.

First, make a little pen or enclosure of some sort, and pick out three or four of your ducks—as near the drake in colour as possible, and put them together. Keep them in this pen till you see that the drake has made friends with them.

Secondly. The pen must be well away from the sight of the chickens. He must not see the chickens again until he has forgotten them. It is quite possible that he will not eat for several days, but he will not be likely to do himself any real harm. Of course, if it was in the breeding season it would not do at all, but as it is he will have got into condition again long before he is needed.

Ducks are very much creatures of habit, but they soon forget the old, and acquire new ones.

#### POST-MORTEMS.

Reply to Mortimer and "Sorter."—Both your birds had growths, something like cancer, in the liver, spleen and kidneys. You had better handle all the others, and isolate any that are losing flesh, as suspicious cases.

## THE HEN FROM WITHIN.

Mr. W. POWELL-OWEN LECTURES  
AT HEASELANDS.

A thing that every poultry-keeper wants to know is not only which are the best big layers, but which are the wasters, because by getting rid of these the food bill can be cut down while the egg production is very little affected. Mr. Powell-Owen needed no introduction to his audience last Friday, said Mr. Bostock Smith, who was in the chair, as he is so well-known to every poultry-keeper, if not personally, at least by name. There are many birds bred from really good parentage that need not be passed through the trap-nest, and Mr. Powell-Owen claims to be able to pick them out.

"I am a handler and a trap-nester," was Mr. Powell-Owen's remark. "The most important part in poultry-keeping is observation. In the commencement of handling one is generally interested in one point. Something strikes the eye—it might be high tail carriage. One may have a bird which lays well, which has a high tail, and they will imagine that all birds with this will be good layers, but a high tail may possibly mean a roach back. In the matter of size we have a very good guide, a large bird, as a rule, will lay a small number of eggs, and the small bird the most. Another important factor in laying is weight, and this should really come first, but to tell a bird by weight takes a long time to learn thoroughly..

"Temperament is essential in handling all birds, and a good layer will generally be a really docile and good tempered bird. A rule in handling is that we like good layers, and dislike bad layers. The bad layers are generally squealers and difficult to handle, while the good layers are bred with a good temper.



"There is a type of bird which, when trap-nested, will get into a good temper, and they come in under what is termed "acquired good temper." Such a bird has all the points of a good layer, but is temperamental. When I ask you to drop a squealer you will know the type because you will see fright in its eyes, eyes which are small and sunken. The eye which I like is large in the pupil, the iris is very bright, and preferably red; it should be high up in the skull and prominent, and if the eye is prominent the skull is always narrow at the back. The docile bird has an eye with a sparkle of good temper—a 'don't care' sort of look.

"Then there is the bird which lays possibly 250 eggs as a pullet, but afterwards stops completely—she may be laying her eggs inside. The eye reflects both the heart and the inside. In old hens I am always looking for the frown or the worried look. She may, after getting through the moult, lay 30 or 40 eggs, and the others will be inside her, and there is a real cause for her to look worried.

"There are five well-formed yolks in the ovary at all times, and as one drops out another drops into the oviduct.

"The opening is just a thin skin, and if a bird is too fat or happens to be flying in fright, the yolk stands a chance of not going into the oviduct.

"Type. There is much in the type of a bird, and what one should aim at is a nice compact bird of medium weight. There are four strips of muscles which work to expel an egg, and if the breast bone is so short that these muscles have to support the abdomen, in six to eight months the abdomen will be right down. A firm rule in handling is that birds must have breast-bone—always straight and in support of the abdomen. A bird with a dropped abdomen will never lay fertile eggs because she evades the cockerel. I like a straight breast bone and one long enough to support the abdominal muscles—but not so long as to reach the pelvis. Abdominal capacity is not a question of four fingers' capacity alone. It really means length, depth, and width of abdomen.

"One cannot learn how to handle from the best birds so much as by studying the bad points in birds. There is the question of deformities. A bird carrying a bad tail generally has some deformity, as, for instance, an upright tail may denote a rounded trunk; in fact, any bad carriage of the tail, such as wry or squirrel tail, is a sign of weakness. Gracefulness and style denote good type. It is true that £5 is too much to pay for a bad bird, but £50 is not too much for a good one.

"The cockerel must be from a hen which has laid 240 eggs or over, and the sooner one gets such a bird the sooner they will be getting a first class flock together. The cockerel to look for is one with a big chest, a long back and a graceful tail. A big chest means good digestion and stamina. Width between the legs denotes a wide back and a good wide abdomen, and this is a point which can be observed by merely looking at a bird.

"It is an advantage to have a show-pen in every poultry yard, so that the birds can be studied closely.

"The width of the pelvic bones will tell us the strain

of a bird, and if it has a wide arch it is a layer of large eggs. Texture and capability also govern a bird. You have capability you are bound to have texture. Texture I mean tight feather on the back and thigh, and silky. The two extremes are "wooly" and "waxy" feathering."

In answer to a question Mr. Powell-Owen said that a bird just before she commences laying should have plenty of flesh on her, and this is the way of telling a layer—she will lose that flesh if she lays well, and it is possible to tell how long a bird has been laying by the colour and condition in other parts. Then eggs will clear the colour from the vent, thirty eggs will clear the colour from the beak, and if a bird continues laying consistently she will lose leg colour.

There are three chief things in selection by handling. They are weight, temperament and type.

#### APPLICANTS FOR MEMBERSHIP.

- Cleworth, T. H., Woodlow Poultry Farm, Whydown, Bexhill-on-Sea.
- Robinson, T., The Hollies, Gobowen, Salop.
- Tobler, Albert D., 112, London Road, Nantwich.
- Trustees of the North Wandsworth Agricultural College, Ltd., Sutton, Winchfield, Hants.
- Australorps Farm, Ltd., Street Court, Kingeland, Herefordshire.
- Bennie, Miss M. M., Balgownie, Kingcote, Prestwick, Ayrshire.
- Pearson, W., Thorncliffe Lodge, Mostyn Street, Stalybridge.
- Woodcock, H. Drysdal, Corswold Pedigree Farm, Lypst, Stroud, Gloucestershire.
- Garrett, V., The Glen, Shortwood, Nailsworth, Gloucestershire.
- Cross, Miss M., Bailie House, Wimborne, Dorset.
- Farrar, Wm. B., Brookroyd, Batley, Yorks.
- Nicholson, Thomas G., Priors Farm, Crawley, Sussex.
- Parker, Elvin, Goodthorpe Poultry Farm, Hagg Lane, Intak, Sheffield.
- McAlpine, W. J., 4, Kimberley Buildings, Newtownards, Co. Down.
- Jagoe, Wm., Inchafune, Wrotham, Sevenoaks, Kent.
- Grant, Ian S., Plaistow, Horsham, Sussex.
- Ellis, Miss M. C., The Croft, Newlands of Delnices, Nairn.
- Venable, Arden, Millcroft, Bitterley, Ludlow.
- Felstead, W. E., 8, Rush Hill Road, Lavender Hill, S.W.1.
- Upfield, E. J., 162, Earlsfield Road, S.W.18.
- Allbright, Mrs., Stratton Lodge, Hatfield Peverel, Essex.
- Bishop, Miss S., 25, Kingsland Road, Birkenhead.
- Soames, P., Ravenscroft, Shorth Heath, Farnham, Surrey.
- Penny, Jas. G., Sauchie P.F., Grief, N.B.
- Capt. J. Man, R.N., C.M.G., O.B.E., "Bervie," Fleet, Hants.
- Emmerson, J., Wellington Poultry Farm, Dunsfold, Surrey.
- Macfarlane, Mrs. C., Chivery Farm, St. Leonards, Tring, Bucks.
- Howard, Mrs. I. I., Deancroft, West Winch Road, King's Lynn.
- Grinstead, Maj. W. F. H., Sundial Cottage, Ditching, Hants.
- Spencer, A. E., 37, Main Road, Denholme, Nr. Bradford.
- Robinson, J. E., Fern Cottage, Denholme, Nr. Bradford.
- Hall, O. T., Watales P.F., East Hill, Otford, Kent.
- Warrington, Albert Ed., Bengrove Farm, Nr. Tewkesbury.
- Goodwin, Arnold, Park Lane, Loughborough, Leics.
- Whittaker, Levi, Swinbrook Road, Carterton, Clanfield, Ox.
- Draper, J. E., Appliance Warehouse, Audley Range, Blackburn.
- Stratton, E. Bruce, The Woodlands, Ricketts Hill, Tateside, Surrey.
- Comeau, Rev. P., The Vicarage, Paddersley Ensor, Atherstone, Warwick.
- Leake, Thomas Hazleham, Oakville, Admaston, Wellington, Sal.
- Lt. S. G. Simmons, M.P.C., M.S.P.C., Broomham, Heathfield, Sussex.
- Petersen, A. C., The Shrubberies, Streatham, Isle of Ely, Cam.
- Brierley, A. E., 21 and 23, Walton Vale, Aintree, Liverpool.
- Wedgwood, P. J., Rose Cottage, Prescott, Lancs.
- Longbottom, C., 35, Scott Park Road, Burnley, Lancs.

Collier, E., 9, St. Wilfrid Street, Preston.  
 Poole, G. R., Staminal Poultry Farm, Bingley.  
 Hill, Wilfred, Ashgrove Poultry Farm, Elland.  
 Bowntree, T., Bannfield P.F., 354, Manchester Road,  
 Tyldesley, Midd.  
 Jones, J., 124, Broadwood Street, Bolton, Lancs.  
 Eddleston, J. A., Wycollar, Blackburn, Lancs.  
 Hardman, Edwin, Scut House, Carleton, Poulton-le-Fylde,  
 Lancs.  
 Bullock, A. Alastair, Carters Farm, Headley, Nr. Newbury.  
 Smith, A. L., The Progressive P.F., Sanctus Road,  
 Stratford-on-Avon.  
 Mirrieless, Lady M., Garth, Aberfeldy, Perthshire.  
 Turner, Leonard, 19, Hebble Terrace, Wheatley, Halifax,  
 Yorks.

Muir, Dunlop Semple, 68, Robertson Street, Glasgow.  
 Lipscombe, Capt. J. Kenneth, St. Antonys, Swanley, Kent.  
 Robinson, John J., Bungalow Poultry Farm, Gainford.  
 Coberley, Mrs. O. R., Hilden House, London Road, Tonbridge.  
 Mecaw, J. G. Kennedy, Wood Dale P.F., Billingshurst, Sussex.  
 Clarke, John C., Fosseway, Lichfield, Staffs.  
 Crook, Joseph, 45, Ripley Street, Warrington.  
 Fitz, H. George, Belmont Poultry Farm, Castle Lane,  
 Strouden, Nr. Christchurch.  
 Travis, Sam, 31, Albert Street, Newton Heath, Manchester.  
 Collins, Capt. C., Dale Egg Farm, Lawshall, Nr. Bury  
 St. Edmunds.  
 Curd, Mr., Lane Bottom P.F., Blackshaw Head, Hebden  
 Bridge, Yorks.

Baker Bros., The Utility P.F., Somerton, Somerset.  
 Cunliffe, Wm. Thompson, Ballacrye P.F., Colby, I.O. Man.  
 Gauld, F. D., Pylewell Poultry Farm, Lymington, Hants.  
 Alcock, W. H., 7, Wellington Road, Watford, Herts.  
 Haddox, Miss Ruth, Witchwood, Valebridge, Burgess Hill,  
 Sussex.  
 Flack, Mrs., 19, Darley Drive, West Derby, Liverpool.  
 Newington, Wm. H., Sparrow Green, Wadhurst, Sussex.  
 Gravatt, Richard Thomas, 65, Grove Street, Deptford, S.E.8.  
 Leat, W. D., "Oakleigh," Locks Heath, Hants.  
 Davies, E., Ty-Gwyn, Waenfawr, Carnarvon.

## Book-Keeping Simplified.

By TOM CARTER.

The first of October is a very good date upon which to commence the financial year. The new laying season is beginning, and by closing the accounts on September 30th, one gets a clear idea of each laying year for comparison. The system here given should meet the needs of most poultry farmers who wish to spend as little time as possible in the keeping of accounts.

The first essential is to take stock. It is well to divide this into two portions: (1) Plant and Appliances. (2) Live Stock and Foodstuffs. The accounts which I have drawn up as an example show £800 as the value of plant at the commencement of the period. We will suppose this to consist of:—

	£
Houses ...	630
Fencing ...	50
Materials ...	20 (Timber, Netting, etc.).
Appliances ...	100 (Incubators, Brooders, etc.).
	£800

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

The stock of birds and foods is £400, comprising:—

	£
600 Pullets, at 10s. ...	300
400 Hens at 4s. ...	80
Foodstuffs ...	20
	£400

In valuing the birds it is advisable to do so on the basis of cost of raising, and not on their potential value as layers. The remaining asset consists of cash £100. Our capital at the commencement will, therefore, be the total of these three items, i.e., £1,300.

Two books only are required—a small ledger and a tabular cash book. In the ledger three accounts should be opened on separate pages—Capital Account, Plant Account, and Trading and Profit and Loss Account. If the business were owned by more than one person a separate capital account would be opened for each partner. In our example Capital Account is credited with £1,300. Plant Account is debited with £800. Trading Account is debited with £400. These are the only entries necessary in the ledger until the close of the period.

The tabular cash book is also the journal. The cash in hand and at bank is placed on the debit side of this book. As purchases and sales are made the amounts are entered on their respective sides in the first column, and also under the proper heading in one of the other columns. By adding up the items in the first column on both sides, and taking into account amount of cash in hand and at bank one can make certain of the correctness of the entries at any time. This book can, of course, be made up monthly if desired, and the amounts carried to the respective accounts in the ledger, but, generally speaking, the totals can be continuously carried forward until the twelve months ending. The accuracy of the totalling up of the subsidiary columns can be checked by comparing the whole of these totals with the total in the first column.

At the close of the period stock is again taken, and is here given as a total of £405. Depreciation of Plant and Appliances is given as £100, about 12½ per cent. The totals from the cash book are carried to the respective accounts in the ledger, and stock and depreciation entered up. The balance of Profit and Loss Account is carried to Capital Account. The balances of Capital and Plant accounts, the stock in Profit and Loss Account, and the cash in hand and bank are then brought down ready for the next period. The balance sheet is simply a summary of these balances.

By adding to the number of columns in the cash book separate particulars can be kept for different classes of stock where these are on the same farm. The system outlined will provide all the information necessary in preparing accounts for the Surveyor of Taxes.

Dr.		CAPITAL ACCOUNT.		Cr.	
		£ s. d.		£ s. d.	
September 30th, 1921—				October 1st, 1921, to September 30th, 1922—	
To Drawings	...	250 0 0		By Balance brought forward	1300 0 0
„ Balance carried forward	...	1390 0 0		„ Profit from Profit and Loss Account	340 0 0
		<u>£1640 0 0</u>			<u>£1640 0 0</u>
				October 1st, 1922—	
				By Balance brought forward	1390 0 0

		PLANT ACCOUNT.			
		£ s. d.		£ s. d.	
October 1st, 1921, to September 30th, 1922—				October 1st, 1921, to September 30th, 1922—	
To Houses, Appliances, etc.	...	800 0 0		By Depreciation	100 0 0
„ Purchases	...	50 0 0		„ Balance carried forward	750 0 0
		<u>£850 0 0</u>			<u>£850 0 0</u>
October 1st, 1922—					
To Balance brought forward	...	750 0 0			

		TRADING AND PROFIT AND LOSS ACCOUNT.			
		£ s. d.		£ s. d.	
October 1st, 1921, to September 30th, 1922—				September 30th, 1922—	
To Stock brought forward	...	400 0 0		By Eggs	1200 0 0
„ Food	...	650 0 0		„ Hens	60 0 0
„ Wages	...	150 0 0		„ Cockerels	60 0 0
„ Live Stock	...	20 0 0		„ Stock Birds	10 0 0
„ Sundries	...	20 0 0		„ Sundries	5 0 0
„ Gross Profit carried forward	...	500 0 0		„ Stock carried forward	405 0 0
		<u>£1740 0 0</u>			<u>£1740 0 0</u>
September 30th, 1922—				„ Gross Profit carried forward	500 0 0
To Rent and Rates	...	50 0 0			
„ Insurance	...	10 0 0			
„ Depreciation	...	100 0 0			
„ Nett Profit carried to Capital Account	...	340 0 0			
		<u>£500 0 0</u>			<u>£500 0 0</u>
October 1st, 1922—					
To Stock brought forward	...	405 0 0			

## BALANCE SHEET—September 30th, 1922.

	£ s. d.		£ s. d.
Capital	1390 0 0	Plant	750 0 0
		Stocks	405 0 0
		Cash	235 0 0
	<u>£1390 0 0</u>		<u>£1390 0 0</u>

## TABULAR CASH ACCOUNT.

Dr.	Cash.	Eggs sold.	Hens sold.	Cockerels sold.	Stock Birds sold.	Sundries.		Cash.	Food purchased.	Wages.	Materials and Appliances.	Live Stock.	Rent and Rates.	Insurance.	Sundries.	Owner's Drawings.	Cr.
October 1st to 4th, 1921—	£	£	£	£	£	£		£	£	£	£	£	£	£	£	£	
To Balance brought forward	100							12	12								
„ A. B.	10	10						3		3							
„ C. D.	5																
Total	1435	1200	60	60	10	5		1435	650	150	50	20	50	10	20	250	
	To P. & L. A/c.							To P. & L. To Plant To P. & L. A/c. To Capital A/c.									

October 1st, 1922—  
To Balance carried forward 235

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### THE GENERAL MEETING.

As announced in last week's issue, the Annual General Meeting will be held at the Club Room during the Dairy Show on Thursday, October 19th, at 12 o'clock. Mr. J. G. Kitson will preside.

The following resolutions have been received:—

By Mr. J. A. Cowan.—(1) "Considering the sum of £119 1s. 7d. stated in last year's Balance Sheet, to be excessive for postage, I beg to move that: All correspondents (members and non-members) must enclose a stamped addressed reply envelope. (This, of course, in addition to any fee charged non-members)."

(2) I beg to move "that papers read at Branch meetings be published in full in a subsequent issue of 'Eggs' (provided the writers of papers are agreeable)."

By Mr. Mudie-Draper.—"That Rule 6 in Rules for Guidance in Mating and Breeding Stock, which reads, 'If pullets are used for Stock they must have first given a winter average of not less than 30 eggs from October 15th to January 15th inclusive, or not less than 40 eggs from November 1st to February 1st inclusive. This rule is very strict indeed,' be deleted."

By Mr. A. Harold Paine.—"That it is advisable that in the Register for 1924, facilities shall be given for the registration of Ducks."

By Mr. T. J. Wainwright.—"Proposed that, in view of the fact that the Council's time is entirely occupied on matters connected with the actual business side of the Association, an Outer or Greater Council should be formed consisting of members residing at various centres in the British Isles, whose duties would be: (1) To arrange Lectures and Demonstrations; (2) to assist members requiring information and thus ease the work of the Secretary; (3) to keep Secretary informed on all matters of importance or interest to the Industry or S.P.B.A., such as outbreaks of disease; names of vendors of stock, food, appliances, whose local reputations leave much to be desired, etc."

### THE END

of the financial year of the S.P.B.A. is August 31st. Every member has been notified that his or her subscription is due. If members desire their names and addresses to be included in the register, Subscriptions must be paid not later than Oct. 15th.

TOM NEWMAN, Hon. Sec.

### DISCOUNTS.

Messrs. Hanson and Sons, Argyle Mills, Liverpool, write to say they are prepared to give a discount of 5 per cent. on all meals and grains to members of the S.P.B.A. ordered through the Society except on

special parcels which are quoted at Rock Bottom prices.

The Milk Food Co. are prepared to allow a discount of 10 per cent. to members purchasing through us.

### STAND 151.

Our Stand (151) will be in the same position as in previous years, and we are hoping to make it especially attractive. We shall be glad of assistance, and if any of our London members have spare time in the evening their help will be especially welcome.

### LIVERPOOL AND WIRRAL BRANCHES.

The Annual Conference with the Liverpool and Wirral Branches was held at the Common Hall, Dale Street, Liverpool, on Saturday, September 30th. There was a good attendance at both the afternoon and evening session. Mr. R. A. Currie, the President of the Wirral Branch, presided in the regrettable absence of Mr. Johnston. On behalf of those present Mr. Currie extended a welcome to Mr. Meekings and myself who represented the S.P.B.A. Council. He spoke of the growth of the two Northern Branches and the excellent work they were doing, and then I was asked to give a report of the work of the S.P.B.A., which, as I was able to present a very favourable one again, was well received. Following this I read a paper on "Production and Nutrition," which was followed by an interesting discussion, my advice to feed grain as a scratch feed only, needless to say, brought up the old question of the gizzard, and I am afraid I failed entirely to convince Mr. Anderson that because the hen was given a gizzard it was not necessary to feed hard corn to give it something to grind. At the evening session, which was open to the public, Mr. Meekings spoke on the work of the S.P.B.A., described its origin and development, and the work before it.

I then said a few words on behalf of the National Poultry Institute, and we then proceeded to raffle a couple of Rhode Island Red Cockerels, very generously given towards the Institute funds by Mr. T. Haworth. These realised £2 14s., and Mr. Voce, who won one of them sold it for 12s., and kindly gave the proceeds to the funds. With 7s. in addition given by those who did not care for the raffle, the sum of £3 13s. 6d. was amassed. Following this we had Mr. Brooksbank's paper on "Nutrition in Relation to Incubation." It was listened to with absorbed attention. I am sure it will be read with the greatest interest by all of you in next week's issue of "Eggs" (I may say that our Dairy Show issue will contain some very interesting articles and illustrations). Mr. Brooksbank had questions from all parts of the hall when he sat down, but all were fully answered.

Mr. Cleaver, the Hon. Sec. of the Liverpool Branch, told the meeting of the good work accomplished last year, and asked for a vote as to whether the monthly meetings should be held during the coming winter; all were in favour of this, and it was agreed to. It was also agreed that the conference should be held at Liverpool again next year.



Thanks to the energetic Secretaries, Mr. Cleaver of the Liverpool Branch and Mr. Jones of Wirral, we have two very prosperous Branches in the North.

#### CHANGE OF ADDRESS.

Miss R. E. Bulley writes to say that she is removing from Brading, Isle of Wight, to Station Road, Wootton, Isle of Wight. She is now interested in Croods, Campines, and Ducks.

#### THE WADHURST BRANCH.

Mr. J. Everard tells me that the Branch held a very successful show at Wadhurst on Wednesday, September 27th. There were 90 birds exhibited, and 18 entries of eggs.

White Wyandottes seem to be the favourite breed amongst the members, and headed the list with 24 entries, 13 of them in the pullet class. White Leghorns were next with 15, and Rhode Island Reds followed with 13. The show is mainly with the idea of getting members to exhibit their birds, and see what improvement has been made during the past year, rather than the winning of prizes. In fact, money prizes are not given, but members and local tradesmen offer specials in kind.

The judge spoke highly of the type of birds exhibited, and said there was a marked improvement on the previous show.

Mr. P. Doyle, who specialised in Light and Speckled Sussex was awarded the special prize of a poultry house for the best bird in show, given by Col. Gay. Miss Bennett was first in White Leghorn cocks. Col. Gay was very successful with Rhode Islands in both classes. Mr. Everard was to the fore with White Leghorns, and also won with a Wyandotte pullet; Mrs. Walker won 1st and best in class with a Wyandotte cockerel, and Mrs. Mitchell was first with hens. Mr. E. Gardener won with Light Sussex hens. In A.O.V. pullets Mrs. Walker was first, and she also won with geese. Table birds fell to Col. Gay. Miss Previte won first and special with her White Indian Runner duck, and Miss Bennett with drakes.

The egg classes fell to Mr. Everard (White), Mr. J. Williams (Brown), and Col. Gay (Tinted).

In spite of bad weather, all expenses were nicely covered.

#### THE DOOM OF THE STALE EGG.

There should be gladness at the breakfast table this morning at the news that the doom of the stale egg has been sounded. The farmer's wife, who has hitherto hoarded her eggs during the height of the laying season so as to sell them at an enhanced price later on as fresh, regardless of the risk of their condition, will no longer do so with impunity. Her husband may, indeed, not only lose the market for the hoarded eggs, but he may be mulcted in fines up to £20 for each egg he offers for sale in the market. The reason for it all is the "Stale Egg Order," issued by the Agricultural Department of the Northern Government a few weeks ago, and under which the first prosecution was taken at

Dungannon Petty Sessions, when a farmer was summoned for exposing for sale 33 stale eggs in the public market. The egg inspector for the Urban District proved the charge. Out of seven dozen eggs, six on the top of the defendant's basket, he said, were so rotten that they did not need to be tested to ascertain their condition. On being tested, three dozen were found to be rotten, three dozen were stale or third-class eggs, and one dozen were fresh. The defendant said he did not know there was anything wrong with the eggs; he had them at home for about a fortnight. The magistrates held the case proved, and inflicted a fine of 40s. and costs, the Chairman stating that in future the maximum penalty would be imposed. The maximum penalty is £20 an egg. So that the poultry farmer in Northern Ireland who in future holds up eggs until they are stale or rotten, and then offers them for sale, risks being ruined for his or her folly—or, we should rather say, dishonesty and greed. For there is no more honesty in this practice than there would be in attempting to sell diseased meat for human consumption. The wonder is that the stale and the rotten egg, masquerading as fresh-laid, has hitherto escaped the eye of the law. For the dishonesty of the practice is beyond denial. The farmer in offering them for sale knows that he is perpetrating a deliberate fraud, and greed is at the bottom of it. The public ought long ago to have been protected against this fraudulent practice by the law. In stating the case for the prosecution at Dungannon the solicitor who appeared for the market authority said that the Ministry of Agriculture took a very serious view of it; the egg trade in Northern Ireland was a considerable asset, and the action of a few persons who for greed held up the supply for a rising market was destroying the Irish egg trade in the English and Scottish markets. This is not new; we have heard of it repeatedly from the Department of Agriculture in Dublin ever since that Department was created. The practice has not been confined to a few greedy persons; it is questionable if it has been confined to the egg producer. We somehow have a recollection that the Dublin Department has complained of the local merchant who collects the eggs being addicted to it here and there. From the trade point of view, the importance of this prosecution at Dungannon is great, but no greater than from the moral point of view. The Irish egg industry needs cleansing, materially and morally; it is not only the hoarding of eggs until they are stale and even rotten that needs to be abolished by the law, but the whole system of selecting and packing for sale and transit stands in urgent need of reform. There is no egg to compare in quality with the egg produced by the Irish hen, yet there is no egg that is under greater suspicion in the cross-channel markets because of the tricks of the trade and the uncleanly and neglectful methods of export. The "Stale Egg Order" is a step in the right direction, not only to benefit the industry, but to protect the buyer. Our Ministry of Agriculture has made a good beginning; if it can go further with authority and control the grading and the packing and transit of eggs, it should do so, for every such step would add to the value of the industry.

## Correspondence.

### THE SURPLUS COCKEREL.

To the Editor of "Eggs."

Dear Sir,—I read your Editorial Notes in "Eggs" of 20th September with much interest, especially as regards the Surplus Cockerel.

I cannot see why there should be any loss at all on every cockerel hatched, when one realises the enormous demand there always is for **Milk Chickens** in the large wholesale markets, a demand which is many times greater than the supply.

One need not live near London either, to get rid of small cockerels for there are the Markets of Manchester, Liverpool, Leeds, Sheffield, etc., crying out for supplies of these small birds.

Happening to be in Manchester a fortnight ago I took the opportunity of visiting the Wholesale Market and conversed with a dealer on the question of the supply of Milk Chickens; one of the things he told me was, that he had a great demand for them, **but could not get them at all**. Surely it is up to us poultry farmers to meet the demand.

Chickens should all be run together until the sexes can be distinguished, when the cockerels should be put in a pen of their own and fed on a special diet mainly consisting of Sussex Ground Oats mixed with milk, also milk to drink. Birds fed thus are ready for market at 6-8 weeks old; their weight should be 12 ozs., when they will fetch prices varying from 2d. to 1s. 4d. per bird.

I am certain it would pay any poultry farmer to rear Milk Chickens, and send them to the nearest market.

Yours truly,  
E. BALDWIN.

St. Cisaph,  
28th September, 1922.

### SALE OF EGGS.

To the Editor of "Eggs."

Dear Sir,—A perusal of your correspondence columns would suggest that almost numberless egg producers are anxious to accept a fair price for—in the aggregate—vast quantities of eggs of A1 quality. Our experience tends to confirm the opposite opinion.

Mr. Boyd suggests that an advertisement in "Eggs" would be profitable to such as ourselves.

We have advertised in "Eggs" seven times in our months, and have had but six satisfactory replies.

True, offers of a kind were abundant, but with the exception of a small percentage all declined to guarantee infertility.

There is an almost unlimited demand for the best quality egg, new laid, first grade, and unfertile. Our own trade could be quadrupled at once, if we could secure adequate supplies of this quality.

The sad fact is, most poultry keepers decline to undertake the little extra work necessary to market their produce in superior condition.

The failure to develop the home market is, in the main, the fault of the producer, not the middle-man or consumer.

We are, Sir,  
Yours truly,  
E. LINDLEY and SON.

Woodhouse Mill,  
Sheffield.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—This question is of such momentous interest that I feel impelled to add my opinion to that of others who have already addressed you.

What is this "present position" about which poultry farmers are so exercised? Surely it boils down to this, that egg farmers in this country cannot compete with this imported egg, and so a demand is made for marking or taxing imports. Now, there is nothing new in all this. The same sort of agitation has been going on in Agriculture ever since the repeal of the Corn Laws, which were proved disastrous to the general public, and is simply the age-long fight between Free Trade and Protection. During the War, when the country was dangerously near starvation, and Protection was practically in force, we were told that "Never Again" should Agriculture be allowed to get into the old parlous state; now the last war is ended (and we are fixing our eyes on the new one) we find that agriculture has been allowed to sag back to its pre-war position.

The fact of the matter is, Sir, the working man in the towns, who controls elections, will not pay more than he need for his food so that if wheat, meat and eggs can be brought from abroad, and cost him less than home produce, he cares nothing about the difficulties of general, or poultry farmers.

As for Co-operation in marketing eggs, this has been tried many times, and only in few cases with success. The reasons appear to be that too many stale eggs find their way to the Co-operative Society, dishonesty of this sort being looked upon as a mere peccadillo; and that, while eggs are sold locally during times of high prices, when the Society might hope to make a profit, they are unloaded in large quantities in times of glut, when the Society finds it difficult to market them. Here, again, honesty would impel the producer to send all his eggs, in time of scarcity as in times of glut, and to insist that no egg beyond three days old should be sent in as new laid. At the same time, it is probably the fact that a large number of "dud" eggs sold as English new-laid have come from beyond the Urals or Wei-hai-wei.

Is the position hopeless then? I do not think so. Egg farmers must cut down expenses, both in the way of labour and food; while co-operative food buying would be a great boon if the S.P.B.A. could see its way to controlling it. The direction of "Eggs" is so strikingly and obviously honest that a Co-operative Food Buying Society, run under its auspices, with an initial entry and an annual fee to S.P.B.A. members,

should prove the greatest boon. Above all, there should be rigid testing of all foods sent out by such a Society, Adulteration being such an evil of the present day. Also the small buyer should get exactly the same benefits as the large.

It is quite useless trying to kick against the pricks of the world prices, we must help ourselves by cutting down expenses and by selling only the finest class of eggs.

Yours truly,  
OXON.

#### MARKING FOREIGN EGGS.

To the Editor of "Eggs."

Sir,—It seems to me that your correspondent, A. C. C. S., has missed the point. The marking of foreign eggs is intended, I take it, not so much to stop their importation as to prevent their sale as English produce. Since we insist on the Australian marking his mutton, there would appear to be no grave injustice in asking the Chinaman to label his eggs. After all a good egg, like a good Englishman, should be proud of the country of his origin.

As to expense. It would be no more necessary to examine every imported egg than it is for a Custom House official to go through the baggage of every Cross-Channel passenger. Inspectors would very soon find out which importing firms were respectable, and the others would be deterred by the knowledge that their eggs were always liable to examination, with the prospect of heavy fines for infringement of the marking regulation.

Yours faithfully,  
C. E. NORTHCOTT..

#### MARKING FOREIGN EGGS.

To the Editor of "Eggs."

Dear Sir,—The article "Marking of Foreign Eggs," by A.C.C.S., in the issue of "Eggs," 27th September, 1922, is, I take it, a shot from the locker of the anti-markers. Such an effusion cuts no ice if only by reason of it being a somewhat verbose record of **visualisations**.

His No. (1) completely ignores the fact the whole controversy is brought about owing to working costs not being commensurate with the low price of English Eggs.

In No. (2) he says "salvation lies in being able to place your own produce on the markets at the same costs as your competitor." Exactly so!!! I suppose that during the Winter months when production is comparatively low and costly we should be able to compete with the dumps from the countries where wintry conditions do not at this time obtain. I think most readers of "Eggs" will agree that conditions which allow this state of affairs are unfair in the real sense.

His statement inferring that an egg is classed merely good or bad needs no comment. Eggs at two weeks old though "good" are not the same food as those of 24 hours growth.

No. (3) is quite a humorous flight of imagination!

The argument, or ought I to say "point of view" of what one may call the A.C.C.S. school of thought seems to be that by better business methods and greater production we can not only supply our own needs but invade the foreign market. This, to a phrase of Mr. Sullivan's, "is absurd." To give one example. Is it not understandable that Denmark with a population of under four millions, nearly 10 million hens and something like three million acres under corn production, together with the sympathetic and interested attitude of the Government and State Railways to their Poultry Industry, is capable of competition which from the point of view of the Commercial Poultry and Egg Farmers of Industrial England is **Unfair**.

Yes, Sir, I do think our Industry is entitled to favouritism if you so call the protection the Mark of Foreign Eggs would afford us.

We do, or should look to the Right, i.e., the Industry every time—the foreigner by his unfair competition looks to the Left, i.e., the purchaser, the aid of his Importation Agents.

FRANK ANCLIFFE

#### SHOWS AND THE INSTITUTE.

To the Editor of "Eggs."

Dear Mr. Newnan,—I am sending you, herewith cheque for £1 14s. 6d., as a second donation to the fund. I am not showing birds, but I sent five to the Winchester Show, and received £2 14s. 6d. as prize money. I have deducted £1 for my Poultryman. There are quite a number of shows coming on, perhaps some other Poultry Farmers would like to send a portion of their prize money towards the Institute Fund.

Yours very truly,

H. R. HUNTER

South Winchester P.F., Twyford.

#### PERCENTAGE PRODUCTION CHART.

In last week's issue we published a Percentage Production Chart kindly sent us by Mr. Gerald P. who sends us the following explanation of its use.

"Taking any one pen of birds and having obtained the weekly percentage production, plot a year's results on squared paper against a time basis of weeks. By repeating this the following year, using dotted or coloured lines, a ready comparison of the first and second year's performances is at a glance; or, similarly, different pens of birds may be compared and their relative merits are clearly shown."

Then, again, for any one pen the prices of eggs may be plotted on the same sheet as the production curve. The two curves should bear some inverse relation to one another. The chart should be so arranged that the mean price and the mean production lines are approximately the same.

There is a definite number of eggs at a mean average price which every pen must produce to pay for itself. This may be represented again on the same squared sheet in terms of percentage production so that one can say accurately when the pen is profitable."

Market Report

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, OCTOBER 6th, 1922.

GRAINS AND FEEDING STUFFS.—Supplies of home-  
wheat are fair and quality shows some improvement.  
Milling samples are in fair request, averaging about 41s. 3d.  
104 lbs. Oats are improved demand at firm prices, and  
also maintains recent values. Milling offals remain in  
demand, with middlings inclined to weaken in value.

WHEAT OFFALS.—Bran (British): Bristol, £6 17s.;  
£5 17s.; Liverpool, £6; London, £6. Broad Bran:  
£7 2s.; London, £7 5s. Fine Middlings (Imported):  
on, £9. Coarse Middlings (British): Bristol, £9 5s.;  
£8 17s.; Liverpool, £8 15s.; London, £8 5s. Pollards  
(sorted): Hull, £6 7s.; London, £6 15s. Rice Bran:  
ol, £8; Liverpool, £7 5s. MEAL.—Barley Meal: Bristol,  
Hull, £10 15s.; London, £11. Maize Meal: Bristol,  
5s.; Hull, £9 17s.; Liverpool, £9 15s. Maize Meal (S.  
an): Liverpool, £9; London, £9 10s. Maize Germ Meal:  
ol, £10 5s.; Hull, £9 5s.; London, £9 5s. Maize Gluten  
: London, £9.

EGGS AND DEAD POULTRY.

Week-end prices, Eggs per 120: English, 27s., 28s.; Irish,  
24s. 6d.; Dutch all brown, 26s., 27s.; Danish, 18lb., 26s.,  
French all brown, 26s.; Chinese, 12s., 15s. Dead Poultry  
(don).—Yorkshire, Boston and Essex, 1s. 2d., 1s. 4d.;  
ey and Sussex, 1s. 6d., 1s. 8d.; Hens, 9d., 10d. per lb.

EGGS.

Per Doz.—Ashford: First, 2s. 10d.; Second, 2s. 9d. Birming-  
ham: First, 2s. 7d.; Second, 2s. 6d. Carlisle: First, 3s. 0d.  
Chelmsford: First, 2s. 11d.; Second, 2s. 10d. Denbigh:  
First, 2s. 9d.; Second, 2s. 8d. Derby: First, 2s. 6d.  
Dorchester: First, 2s. 9d. Exeter: First, 2s. 9d. Hereford:  
First, 2s. 6d. Hull: First, 2s. 6d. Ipswich: First, 2s. 9d.;  
Second, 2s. 6d. King's Lynn: First, 2s. 6d. Lincoln: First,  
2s. 6d. Llandilo: First, 2s. 9d.; Second, 2s. 6d. Newport  
(Mon.): First, 2s. 10d. Norwich: First, 2s. 7d. Oswestry:  
First, 3s. 0d.; Second, 2s. 9d. Penzance: First, 2s. 3d.;  
Second, 2s. 2d. Salisbury: First, 2s. 10d.; Second, 2s. 8d.  
Shrewsbury: First, 3s. 0d.; Second, 2s. 9d. Skipton: First,  
2s. 9d. Taunton: First, 2s. 4d. Truro: First, 2s. 6d. York:  
First, 3s. 0d. Second, 2s. 9d.

FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby:  
First, \*4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 6d.; Second,  
1s. 4d. Hereford: First, 1s. 4d. Ipswich: \*6s. 0d.; Second,  
\*4s. 0d. Lincoln: First, \*5s. 6d.; Second, \*3s. 6d. Llandilo:  
First, 1s. 6d.; Second, 1s. 1d. Newport (Mon.): First, 1s. 10d.;  
Second, 1s. 6d. Norwich: First, \*6s. 6d.; Second, \*4s. 0d.  
Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First,  
1s. 6d. York: First, \*5s. 0d.; Second, \*4s. 0d.

DUCKS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 1s. 2d. Derby:  
First, \*4s. 6d.; Second, \*3s. 6d. Exeter: First, 1s. 6d.;  
Second, 1s. 4d. Hereford: First, 1s. 3d. Llandilo: First,  
1s. 8d.; Second, 1s. 4d. Newport (Mon.): First, 1s. 9d.  
Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First,  
\*6s. 0d.; Second, \*4s. 6d.

\* Per Head.

Do come and see me at the  
DAIRY SHOW.

You'll laugh—I have a surprise for you



Just a few grand Cockerels,  
LIGHT SUSSEX,  
WHITE LEGHORNS.

J. Harrison Bell.

"What's Wanted,"  
Is you how to get winter eggs for 2/6.

WELWYN, HERTS.



**"TOOKTOOK" LAYING MEAL—**

A Thoro'bred Amongst Poultry Foods. An Absolutely Pure Blend of those Meals calculated by experience to be the most suitable for Heavy Egg Production; Scientifically Balanced, 97½ per cent. Digestible, Palatable, Easily Assimilated, and with an Albuminoid Ratio of 1 to 3. Rich in Vitamines.

15/-  
per  
cwt.**"TOOKTOOK" DRY MASH, 16/6 per cwt.****"TOOKTOOK" MIXED GRAINS, 16/6 per cwt.**

ALSO

**PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.**

	per cwt.		per cwt.
	s. d.		s. d.
CRUSHED MAIZE	13 0	SPECIAL POULTRY OATS	15 6
SMALL MAIZE	14 0	FEEDING WHEAT	14 0
MAIZE CHIPS	14 6	SUSSEX GROUND OATS	20 0
MAIZE MEAL	11 9	WHITE FISH MEAL	18 0
GLUTEN FEED	10 6	FINEST MEAT MEAL	22 6

**All Free on Rail, Greenock.****Terms—Nett Cash with Order.****Complete Price List FREE.**

**MACFARLAN, SHEARER & CO.,**  
POULTRY FEEDING SPECIALISTS, (Department 36),  
**GREENOCK, SCOTLAND.**

**IT WILL PAY YOU**TO SEND FOR SOME OF THESE  
PULLETS.

White Leghorns, April, 1922, bred from Barron's Hens, with records 250-277, sired by son of 284 hen. 21/-, 25/- each.

Rhode Island Reds, Goldens, March, 1922, 25/- each.

On Approval. Carriage Paid. Also other Breeds.

**The Dales Poultry Farm (W. B. Payne, S.P.B.A.), Syston, Leics.**



**The  
S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.



Please mention "EGGS" when  
replying to Advertisements.

**START WITH GOOD ST**

Our Stock of Highest Class Poultry can be absolutely relied upon. They possess Colour, Type, Stamina, and are bred to lay egg in paying quantities.

We have upwards of 1000 birds from, all bred and reared on farm, and they are in perfect condition.

**BREEDS:**

Light Sussex. Rhode Island.  
White Wyandottes. Black  
White Leghorns.

1922 PULLETS - From 10/-  
1922 COCKERELS - " "  
1921 HENS - " "

All Carriage Paid, and Guarantee of entire satisfaction.

Managing Partner, **WILLIAM**  
**Ashgrove Poultry**  
**ELLAND**

**FELT HOUSE**

Durable and Economical Poultry Houses. Write for estimates and required dimensions. Delivered within 48 hours. Carriage Paid.

**R. SLIMMAND, POULTRY**  
**Dept. N, St. Mary's**

**FORGE BROTHERS' SP**  
**1922 Hatched P**

R.I. Reds (s.c.), four months old, nice combed pullets, 10/- each, strain.  
White Leghorns, Black Leghorns, 3½ months old, 7/- each, from 10 layers of fine large eggs. Six.

All these pullets are in perfect condition, and are sure to give. Money returned if not approved.

Catalogue, Photos, Farm, etc.

Established 1901.

**UTILITY POULTRY FARM**  
**Everley, Hants.**

**PALMER'S PURE FISH MEAL.**

As used by the Ministry of Agriculture, and also the "Daily" N.U.P.S. Bentley, Harper-Adams, and Munster Laying Companies.

**DAIRY SHOW. Our Stand, No. 193, Gallery,**  
**where we shall be pleased to see our friends.**

£16 per ton, £8 2s. 6d. per ½ ton, £4 2s. 6d. per ¼ ton.  
Carriage Forward from Hull.

22/- per cwt., 12/- per ½ cwt., 6/9 per ¼ cwt.  
Carriage Paid England and Wales and to Ports.  
FISH GRAINS THE SAME PRICE.

**CHICK FOODS**  
**LAYING MEAL**  
**SUSSEX GROUND OATS**  
**FLINT**  
**LIMPET**

**BISCUIT MEALS**  
**WAFFER MEAL**  
**PURE TONIC SPIKE**  
**COCKLE**  
**OYSTER**

**OYSTER and MIXED SHELL.**

Send a postcard for Samples and Literature to—

**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY**

## BREEDERS' SPECIALITIES.

### ALEXANDER'S BIGREE POULTRY.

Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
LONDON via NORWICH.

Rev. F. KENNEN, S.P.B.A.,  
Loughborough, Glos.

White Leghorns, Special Pen. Hens from  
27-280 eggs. Sire's Dam, 255 eggs in  
pullet year.  
No. 50, winner of Special and 1st  
Sept. 9th, 1922. Pen No. 1, headed  
Sire from 250-260s. hen (Latham). Pen  
2, later hatched, but with special for-  
tune. Orders now taken for Sittings,  
Olds, and Early Pullets and Cockerels.  
Us and Records given on application.

Miss HARDMAN,  
Member, S.P.B.A. and N.U.P.S.,  
ST. DUNFOLD, near GODALMING.

White Wyandottes and Light Sussex.

1 Pullets trap-nested, and only good  
winter layers kept for breeding.

A. HULME.  
Whitfield Commercial Egg Farms  
HEATHFIELD, SUSSEX.

WHITE LEGHORNS.

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

N. SHELLEY S.P.B.A. and  
N.U.P.S.

Breeder of Utility Trap-nested  
RHODE ISLAND REDS

Pullets, on point of lay, from 15/-  
onor House, TITTENSOR, Stoke-on-Trent

Have you seen the bargains being  
red in the classified advertisement  
section?

You can depend on it.  
ONE OF THESE SPACES  
COSTS:  
weeks, 5s. 6d. per insertion  
" 5s. 0d. " "  
" 4s. 6d. " "  
not less than 13 accepted).

WHITE WYANDOTTES.

L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.

Speciality:  
STAMINA AND SIZE OF EGGS.

G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.  
WHITE LEGHORNS.  
LIGHT SUSSEX.

Pullets, from 10/-, according to age.  
Inspection invited.

MILL VIEW POULTRY FARM,  
TENTERDEN, KENT.  
Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE,

S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S., and N.U.P.S.  
Breeder of the Highest Class Pedigree  
Utility Poultry.

"HEASELANDS," HAYWARDS HEATH, SUSSEX.

'Phone—Haywards Heath, 92.

White Leghorns, Light Sussex.  
White Wyandottes, Wendels, Black.  
Rhode Island Reds, S.C. Black Leghorns.

QUAKER BROOK POULTRY FARM

WHITE LEGHORNS  
WHITE WYANDOTTES

HOGHTON nr. PRESTON

MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I.Red (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

A MOST  
PROFITABLE INVESTMENT.

IF IT IS ADVERTISED IN

"EGGS"

WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

A. F. C. HOLDAWAY.

R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.O.,  
Pinehurst Poultry Farm,  
Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries invited.

The MISSES RANSFORD,  
White Leghorn Stud Farm

All Birds Trap-Nested.  
All Birds on Free Range.

PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.  
Pedigree Cockerel List Now Ready.

MISS ARGLES, N.U.P.S., B.C.

Pullets and Cockerels bred from my famous  
White Wyandottes.  
Twice top score, one third in four years in  
All Ireland Laying Competition.  
White Leghorns, Miss Edwards' splendid  
laying strain.  
From 10/-, according to age and pen.

ANSTAY POULTRY FARM,  
ALTON, HANTS.

Rev. G. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.  
10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

EVERY MEMBER OF THE  
S.P.B.A.

SHOULD TAKE ONE OF  
THESE SPACES.  
SEND ALONG YOUR ORDER.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."

## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 12 insertions or more a receipt is forwarded.

### SERIAL RATES.

Insertions	for the price of
6	1s.
12	2s.
18	3s.

## FOR SALE. PULLETS.

**BUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1923 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

Pullets, 1922, thousand head, R.I.R.'s and **LEGHORNS**.—Stamp, full particulars, Longley, Ashwell, Herts.

Ten **WHITE WYANDOTTE** Pullets, February hatched; Cam, P. L. Johnson; from L2 birds; £1 each. Deposit.—Locke, The Priory, Frensham, Surrey. Deposit.

150 **WHITE LEGHORN** Pullets, 1922; sires from Priest and Shaw; April hatched; 15s. each; May, 12s. 6d. each; inspection invited. Approval. Deposit with Editor. — A. Cowlshaw, Oak Lodge, Loudwater, Bucks.

March hatched **W. LEGHORN** Pullets, ready for lay, from hens with records 228-248, sired by cockerel, from 288-egg hen; 25s. 6d. each. **WHITE WYANDOTTES**, April hatched (220-270); will lay during October; 21s. 6d. each; selected birds, 25s. R.I. REDS, March hatched, near laying; 21s. 6d. and 25s. each. Only limited numbers.—C. D. Cheesbrough, M.S.P.B.A., Carlton, Nottingham.

Twelve R.I. RED Pullets, April hatched; well grown; 12s. 6d. each. On approval. Carriage paid.—Keith Scott, Brabourne Lees, Ashford, Kent.

Two **WHITE LEGHORN** Pullets, April hatched, from Hanson's hens direct; sired by cockerel (four-guinea bird); Warwick Rogers direct; son of hen whose official record winning pen S.P.B.A. stock tests was "over six eggs weekly for eight months"; 21s. and 25s.; cockerels same price.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS**.—Ordinary Page, 28 15s. 6d.; Half Page, 14 15s. 6d.; Quarter Page, 7 15s. 6d.; One Column, 14 15s. 6d. Half Column, 7 15s. 6d.; Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach Mr. F. J. CHURCHYARD, 94, Farncombe London, S.E.16 by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Amount of cash must accompany every advertisement. Write plainly. The Manager has best to decipher illegible writing, but cannot be responsible for errors caused by writers neglecting to write plainly. A deposit system has been adopted, and advertiser asked to make full use of same. When remitting direct to Editor on deposit amount of purchase-money should be remitted, and six penny stamps extra cost of acknowledgment of same.

Twelve April **LIGHT SUSSEX** Pullets, bred from sisters of the Harper-Adams' silver medal pen; fine healthy birds, reared on free range, at 600 feet; 21s. each.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

**BLACK LEGHORNS**, Cook's 290-egg, May hatched, 1922, Pullets; 10s. 6d., carriage paid; 1921 Hens, 5s. 6d. each. — Simmins, M.S.P.B.A., etc., Heathfield, Sussex.

Eleven s.c. **RHODE I. RED**, March, 1922, Pullets, from L2 stock (Crowley); 15s. each. Approval, carriage paid.—Rowland Cooke, Kirbymoorside, Yorks.

## HENS.

12 Pedigree **WHITE LEGHORNS**, April, 1921, trap-nested records 176-211. Also 10 s.c. **ANCONAS**, March, 1921, with records 163-201; excellent breeders; 12s. 6d. each.—Rowland Cooke, Kirbymoorside, Yorks.

## COCKS AND COCKERELS.

**BLACK LEGHORN** Cockerels, March hatched; Margerison's special pen direct; pedigree given; enquiries solicited.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.

**CROAD LANGSHAN** Cockerels; Ridley Behrens, from trap-nested stock; January hatched; from 21s. Few January-February **WHITE LEGHORN** Cockerels, Padman, from 10s. 6d.—Clarke Hughes, Westbere, Canterbury.

Cockerels. Have you considered my recent advertisements offering **WHITE LEGHORNS**, **WYANDOTTES** and **R.I.R.**? These are rapidly going, so apply early if wanting Pedigree Birds.—Wheeler, "Hooten Hey," Great Sutton, Cheshire.

A few **WHITE LEGHORN** Cockerels, for Sale; April and May birds; dam's White Leghorns (1920), Padman strain; sire Padman Leghorn (1921), from dam of 52 winter and 243 year records. Prices from 7s. each.—R. M. Turnbull, S.P.B.A., Lower Eashing, Godalming.

**LIGHT SUSSEX** Cockerel T dam's record 264, £3 3s. **BLACK** Cockerel (Burn-Murdoch), dam's record £1 1s. Carriage paid.—Mrs. Coldwell, Grove, Milverton, Somerset.

Cockerels, **BLACK MENDEL** Cockerels, **BLACK LEGHORNS**, **BUFF** O.P. Write for particulars. — Button, Dale, Long Eaton.

## 1st IN WYANDOTTES.

100 per cent. First Grade Egg Bird Test, Cheshire Section; correlated to above from 240s-egg layers.—Captain Heseltine, Ropley.

## SPECIAL OFFER OF PEDIGREE COCKERELS

**WHITE LEGHORN**, bred from famous Grimley winners, holding record for winter laying; dam's 223-255; winter records 79-109. Weight of eggs, 2½-3-8oz. Only a few and April hatched left; 10s. to carriage paid. — Bealing, Jesmond Burgess Street, Bassett, Southampton.

## S.P.B.A. TEST WINNERS

Early February hatched Cockerels above, 25s. each. Also February R.I.R. Cockerels, from pen consisting of grandson world's record layer broody hens, with dam's record Boucher's strain, 15s. each. Light Cockerels, March hatched, 1 Marks, 10s. 6d. each. All finest stock. Full particulars on request sent on approval, carriage paid G. Gradon, M.S.P.B.A., Northwick Blackhill, co. Durham.

## PEDIGREE UTILITY COCKERELS.

**WHITE LEGHORNS** (Padman-R.I.R.'s (Golden-Measures), WYA (Barron's), **LIGHT SUSSEX** (E Crawshaw); 7s. 6d.—15s.—Round, Charing, Kent.

**RED Cockerels** (Golden's direct), **E. LEGHORNS**, from prolific hens; April hatched; from 7s. 6d. each. Age paid.—Tansynknowe Poultry Farm, Reil, Lanarkshire.

**F. SEYMOUR SHAW**, Warcop, Westland, can offer Young Stock of great ty at much reduced prices. White orns, Wyandottes and Runner Ducks colours). Records to 269. Approval.

**WHITE WYANDOTTE** Cockerels, s 269-287, sire 293, 24 oss. eggs; 30s. Thirty, 1922, 20s. Approval. Carriage.—F. and T. Lumb, Fairfield, Hebden re.

**OFF ROCK** Cockerels, bred from stock died by J. H. Cooper, dam's record 18, February and March hatched, pedi-on application; 15s. to 30s. each.—ar, Brookroyd, Batley, Yorks.

### BOUCHER'S DIRECT.

**few R.I.R. Cockerels**, February hatched, 1 Pen A., ringed to mothers (310-285 eggs ullet year); £2 2s. each. Carriage paid. sleton "Sands," St. Brelades, Jersey.

### 281 EGG RECORD R.I.R. COCKERELS

from 280 and 262 records hens; hatched February, March; price from 30s. birds personally trap-nested and picked stammina.—D. Hasler, Frinton-on-Sea.

**OFF ROCKS**, 1921 Mulloch strain. What rs for eight, with unrelated cockerel; keeping any more.—Dixon, Gunthorpe, ham.

**ROAD LANGSHAN** Cockerels from the Secretary's trap-nested stock; 15s. or Campines, 10s.—Rev. C. Stobie, P.B.A., M.C.L.C., Fargue, Aberdeen-e.

### BLEVE ANDALUSIAN COCKEREL

**virry Champion** strain; well developed; ect type, utility; 12s. 6d., Exhibition and 30s. R.I.R. Cockerels, beautiful red to skin; big, well developed; ly good Aristocrat strain; 25s. to 30s. Bridgelynn "Poultry Farm, Horeham d, Sussex.

**ise Winner**, 1st Wimborne, 2nd Bland, W.W. Cockerel, bred my best pen sire Powell-Owen system judging; £2 2s.; hers, 30s. R.I.R., 25s.—Bainbridge, Key-on Manor Poultry Farm, Blandford.

**re LIGHT SUSSEX** Cockerels, April hed, 1922; from Bostock Smith's No. 3; fine healthy birds.—Apply The Ferns, Cope, Medstead, near Alton, Hants.

### TOM BARRON DIRECT.

**bruary hatched WHITE WYANDOTTE** Cereles, splendid birds; good type and aine, from L2 hen (Barron), layer of 34 in 36 winter days; sired by Barron Cereles, son of 285 large egg hen; price —Mrs. Athol Stuart, M.S.P.B.A., Box-r, Herts.

### HATCHING EGGS.

**Two year old WHITE LEGHORNS**, mated 270-egg cockerels; 6s. dozen; 40s. hundred; f.o.r Waldron Station; order now for January onwards.—H. Chesterton, Chid-dingly, Sussex.

**LIGHT SUSSEX, WHITE WYANDOTTES**, April hatched; 10s. 6d. **AUSTRALORPS**, May hatched; 15s. 6d. Stamp for partic-lars.—Mrs. Rushton, Barnacre Lodge, Gar-stang.

### WHITE WYANDOTTE COCKERELS.

**February, 1922; hatched by Miss Bayne**, Stocksfield-on-Tyne; well bred for Utility purposes. The pullets now averaging over 50 eggs per bird. — Mrs. Hawkesworth, S.P.B.A., N.U.P.S., Willow Dene Poultry Farm, Beeston, Leeds.

### WHITE WYANDOTTE COCKERELS.

**Early February and March hatched** (Bar-ron) for Sale; all first-class stock birds; February, 21s.; March, 15s. Pedigrees on application. — Miss Whitbred, M.S.P.B.A., The Orchard, Ufford, Suffolk.

**BLACK LEGHORNS.** Stock Cockerels. May hatched, 15s. 6d. Collinson's strain, sired by brother, "Daily Mail" winners, 1920.—Sabine, West Lutworth, Wareham.

**ANCONA, W. WYANDOTTE, W. LEG-HORN**, Stock Cockerels, March and April hatched; 8s. each, carriage paid. Surplus to requirements.—E. N. Parris, Danecroft Poultry Farm, Bagshot.

### WHITE LEGHORN COCKERELS.

**February and March, Dr. Baldwin's direct**, fine, healthy birds; reared on free range at 600ft.; 15s. to 25s. each, carriage paid.—Capt. F. Pardoe, Bradley Court, Mitchel-dean.

**WHITE WYANDOTTE** Cockerels, hatched January 19th, from Wye College; large egg strain; fine healthy birds, reared on free range; 15s. each; approval.—Capt. F. S. Pardoe, Bradley Court, Mitchel-dean.

**Two exceptionally fine Pedigree Feb-ruary, 1921, s.c. ANCONA** cocks, dam's record 240 24oz. eggs, by 288 sire; 27s. 6d. each. Also February, 1921, **WHITE LEG-HORN** Cock, dam's record 461 24oz. eggs; in two years sire's dam proved L2 cock from a 287 24oz. egg hen, by 295 exceptional bird; 42s.—Rowland Cooke, Kirbymoorside, Yorks.

### BANTAMS.

**TWELVE UTILITY** Buff Pekins, 5s. each.—Cross, 12, Calais Road, Burton-on-Trent.

### APPLIANCES.

**Tamlin's 100-EGG INCUBATOR**, practi-cally new; self-filling lamp; £6 10s. — Rhymes, M.S.P.B.A., Northway, Tewkes-bury.

### "ENOTS" SPRAYERS.

**Ideal for Disinfecting Poultry Houses**, also for spraying roses, etc. Only one hand required for use. 1 pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

### ROOFING FELTS

"Superfelt," Ashwell, Herts.

### WIRE NETTING

**Best galvanised. British only; stamp list.**—Superfelt, Ashwell, Herts.

### SUPERFELT

**Builds vermin and draught-proof houses**; without boards; stamp for samples; test; monials.—Superfelt, Ashwell, Herts.

### GLASS SUBSTITUTE

**Samples, stamp.** — Superfelt, Ashwell Herts. Reduced.

**A Sample of the MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

**FITTINGS and Felts** for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Isling-ton, London.

### WOGSBARNE "PUKKA" TRAP-NEST FRONT.

**Completely open when set. No wires or other impediments.** Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

### EGG BOXES.

**24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.**

**WORSAM and ABBOTT,**

Pyecroft House, Chertsey.

**75 TRIUMPH INCUBATOR**, for gas; patent regulator; splendid results; £5, or would Exchange 100 Hearson or Tamlin, using oil, paying difference; cannot use gas any longer. — Kniveton-Kerrodhoo, Ouchan, Isle of Man.



**GLOUCESTER INCUBATOR for Sale;** 250 egg capacity; self-turning trays; used once; excellent hatcher; £9, carriage paid to nearest station.—Dr. Hyde, Prior's Hardwick, Byfield, Northants.

**SECTIONAL INTENSIVE POULTRY HOUSE,** practically new, 62 feet long, containing Food Store (boarded floor), Sleeping House to hold 160 birds, and Scratching Shed, complete, with nest boxes and hoppers. Rubberoid Roof, outside pickled presolium.—Further particulars and photograph from Hebditch, The Rookery, Stoke-in-Ham, Somerset.

### DUCKS AND DRAKES.

**FAWN and WHITE RUNNER Duck 1921 Pullets (Upjohn),** bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

#### 1st IN BUFF ORPINGTONS.

National Laying Test, 1017 eggs in ten months; 1st, Special, County Utility Cup, Winchester; pens, Stock Birds. — Captain Heseltine, Ropley.

**IN NATIONAL DUCK LAYING TEST.** My Pen 49, consisting of Five WHITE RUNNER DUCKS have averaged just over **51 EGGS EACH IN 56 DAYS.**

Ducks No. 241 laid on 116 consecutive days. Book Ducklets and Drakelets now; also Khaki-Campbell Drakelets; all at moderate prices. Duck Laying Meal, 22s. per cwt., f.o.r.—Capt. Negus, Upper Longdon Poultry Farm, Rugeley, Staffs.

Pedigree WHITE RUNNER Drakes, sons of Duck No. 215, who laid 203 eggs in the 1920-21 National Laying Test; 21s. each.—Fletcher, Felstead, Essex.

### TO IRISH MEMBERS.

#### KHAKI-CAMPBELL DRAKES.

For Sale. Harold Paine's direct.—Mrs. Barrow, Milestown, Castlebellingham, Ireland.

### FAWN RUNNER DUCKS.

Nineteen 1921 DUCKS, direct Wilson strain; 10s. 6d. each, or £9 the lot. Drakes from 7s. 6d. — Greenwood, Cheddingley, Sussex.

Ducks and Drakes.—KHAKI-CAMPBELL Drakes, April hatched, from Capt. Long's No. 1 Pen; fine, vigorous birds; moderate price, or Exchange.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

NYE and SON offer Pedigree FAWN and WHITE RUNNER DRAKES from their strain which produced world's record layers, 423 eggs in 437 days, etc.; from 7s. 6d. each. Inspection invited. Shoreham-by-Sea.

### AYLESBURY DUCKS.

Ducks from very large prize winners; 10s. 6d. each; Drakes from 7s. 6d.—Greenwood, Chiddingly, Sussex.

**BUFF ORPINGTON Drakes** (Street Porter), at 15s. each; size and colour excellent.—Mr. Witherford, Markington Hall, via Harrogate, Yorks.

Three **FAWN RUNNER Drakes**, bred from Dairy Show winners, 1921; hatched; 10s. 6d.—Crowther, Sherington Utility Poultry Farm, Newport Pagnell.

A Few **WHITE RUNNER Drakes**, mothers to first Aylesbury (Utility), from high egg record ducks; true to type; reared on free range; 15s. and 20s. each.—Crowther, Sherington Utility Poultry Farm, Newport Pagnell.

**KHAKI-CAMPBELL Drakes**, May hatched, Paine Pen 1 direct; 15s. each.—Cottle, Rampire, Medstead, Hants.

Three **KHAKI-CAMPBELL Drakes**, Two **COALEY FAWN Drakes**; eggs direct from Harold Paine and Brooke Wratten respectively; hatched April, 1922; 15s. each. Approval, deposit.—Simmons, Burleigh Poultry Farm, Brimscombe, Glos.

We have for Sale a limited number of early 1922 hatched **AYLESBURY Ducks and Drakes**. These are massive birds, and very quick growers, and if you wish to obtain a really good strain of table ducks these are cheap at 20s. each, carriage paid. Four days' approval. C.W.O., or deposit with Editor.—Smith Bros., 63, Reinwood Road, Lindley, Huddersfield, Yorks.

**SIX BUFF ORPINGTON DRAKES**, hatched 1922, Cook's strain; 7s. 6d. each. **TWO COLOURED INDIAN RUNNER DRAKES**, hatched 1921, Harold Paine strain; 7s. 6d. each. **FOUR DITTO, DITTO, 1922;** 6s. each. **ONE WHITE RUNNER DRAKE, 1922;** 6s. All fine healthy birds.—Apply, Oak Lodge, Furnace Road, Icclebridge, East Grinstead.

### BREEDING PENS.

#### ANCONAS.

40 1921 Hatched **ANCONAS** (Adams and Linkie, Romanno Bridge) Moulting now, so will make excellent breeding pens; 7s. each, or would consider offer for whole.—W. H. Scott, Carnsalloch Poultry Farm, Dumfries.

#### BARRON WHITE LEGHORN.

Six Pure Tom Barron **WHITE LEGHORN 1922 L2 Pullets**. Records (incomplete), 246, 243, 227, 204, 203, 198; all good eggs. Unrelated Cockerel, dam 246 24oz. egg; 12s. 6d. each.—Apply, Miss Scholes, Bay Hall, Huddersfield.

### GOLDEN-BARRED PLYMOUTH ROCKS.

Can spare few Breeding Pens, all bred from three generations at least of 200-egg ancestors. National Laying Test, second and silver medal. Fine table birds; no wastage with unsaleable cockerels.—Stuart-Thompson, Woodbyth, Peterborough.

### RABBITS.

Lester Spurgeon, Wistlers Wood, Ingham, Surrey, breeder, pedigree Blue Beverens. Youngsters for Sale.

### FOODS.

#### GRANULATED CHARCOAL.

Guaranteed Quality, half-cwt., 12s. cwt., 22s., carriage paid. Also Cedar Dried Flies, Grits, Meals, etc. Free.—Bygrave and Co., Amwell, near

### SPECIAL VALUE POULTRY FOOD.

**GOOD CLEAN WHEAT SCREENING** per 112lbs. Guaranteed Sussex Growth 17s. per 112 lbs. Bags Free. Carriage ward.—Marland and Co., Poultry Millers, Mossley, Manchester.

### DERBYSHIRE LIMESTONE GRIT.

3s. 6d. cwt.—Thornhill, Great Lough, Derbyshire.

I am offering the finest **WHIPPED OATS** at 11s. cwt. Also **WHEAT** at 12s. cwt. Free on rail. Lowe, Brookside Farm, Halewood, Liverpool.

### MISCELLANEOUS.

Strong, Vigorous Early-March, 1922, **RED Boucher-Crawley Cockerels**, and **W. WYANDOTTE** (Barron-Cooper) kerels. All of fine type and colour, from high record hens. 20s. each. A few 1921 Breeding Hens, with good records, 10s. each.—Philip Goodwin, "span," Cheadle Hulme, Cheshire.

### EDENMORE POULTRY FARM, HOOK, HANTS.

**WHITE WYANDOTTES**, large egg birds, splendid records and stamina. Birds, all with individual records, to room for young stock. Cockerels, of Cam's Supreme, and other fine pedigree stock. Table Birds, milk fed. Young Stock has been entirely free from any form of diarrhoea, or other disease. Casualties from all under 8 per cent., including weaklings in incubators. — For particulars and apply to Brig-General Macdonald, more, Hook, Hants.

**F. JOERGENSE**, Specialist and Breeder of Crows. Stock Birds, Pigeons and Chicks. — Kennylands, Emmer Reading.

### WHITE ORPINGTON ONLY.

Write for prices and particulars of trap-nested stock.—Manager, Westridge Farm, Wotton-under-Edge.

## CARBERRY POULTRY FARM, CROOKBRIDGE, HANTS.

1921 and 1922 Hens for Sale, WHITE ANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS, and WHITE LEGHORNS; 5s. to 10s. each, according to age and record. All with records from 175 to 200. Individual records supplied. Stock herds of above breeds. Prices on application.

**PULLETS**, May hatched, White, Brown, Black Leghorns, White Wyandottes, Buff Orpingtons, 12s. 6d. each; April, crosses-breeds, 8s. **DUCKS**, Orpingtons, Aylesburys, Runners, April hatched; some laying; 12s. 6d. **ACKES**, 10s. 6d.—Mrs. Wilson, M.S.P.B.A., Wokingham Farm, Denholme, Bradford.

**RHODE COCKERELS** (February), by son of Boucher's World's Champion Hen (1,046 eggs in four years, never broody), from pens with records up to 278; price 42s. **ANDOTTE COCKERELS** (Cam's), by son of College Queen (361 eggs), from pens with 257 year average; price 30s. **40 BLACK LEGHORN** (Carr) 1921 Pullets, present records up to 235; price 20s. each, on improvement the lot.—Apply, Sturgeon, Wokingham, Canterbury.

### THEY MUST GO.

The following birds remain of my surplus stock sale, and must go at tempting prices:—15 1921 White Leghorns, Padman & Joe Edmondson, flock average 184; 6s. each; 10 1920 White Leghorns, same daughters Pen 53, Silver Medal Winner, Harper-Adams' 1916-17, pure Padmans, 6s. each. Few March-April White Leghorn Pullets, 25s. each; May, 21s. each. Carriage paid. Approval.

### BLACK UNDERWOOD, S.P.B.A.

Reliable Poultry Farm, Sutton Bonington, Leicestershire.

### CROAD LANGSHANS.

Twenty-three fully-matured January hatched Pullets; bred from prize winners, full lay; 21s. each, or twenty guineas the lot. Also Stock Cockerels, January hatched, from similar pens; 12s. 6d., 15s., 18s. each.—Greenwood, Chiddingfold, Surrey.

**RHODE ISLAND RED** and **BROWN LEGHORN** Pullets; February, March, April; 12s. to 15s., according to age and quality. Utility strains. Also February Cockerels.—Hudson Bros., St. Catherine's Poultry Farm, Guildford.

February and March hatched **WHITE ANDOTTE** and **R.I.R.** Pullets, 15s.; March and April hatched **W. LEGHORN** and **ANCONA** Pullets, 12s. 6d. All bred from L2 dams, and in perfect health. Also new selected Breeding Pens of Six L2 and March hatched Cockerel; three years.—H. V. Beesley, M.S.P.B.A., Clarendon Poultry Farm, Great Missenden.

RETIRED OFFICER and Wife would be glad to correspond with others interested in organising a Poultry and Gardening Community.—Box 168, "Eggs," 94, Farncombe Street, London, S.E.16.

## WATLINGTON POULTRY FARM. SPLENDID OFFER.

of 30 WHITE ORPINGTONS, May, 1921, hatched; 8s. 6d. each; excellent for breeding stock.

### BUNGALOWS.

For Sale, midway between Corfe Castle and Swanage, Wooden Bungalow, 5½ acres, freehold land. Good position for Poultry. Close main road. Plentiful supply water. Indoor sanitation. Two bedrooms, one small hall, one bath, w.c., sitting room, kitchen. Price £650. Immediate possession.—Apply, W. Bourne, Harman's Cross, Langton-Matavers, Dorset.

### POULTRY FARM.

For Sale, POULTRY FARM near Lytham; modern eight-roomed house, with all necessary outbuildings and orchard, 13 acres of land; Fyle water laid on; well stocked with poultry; price £3,500.—Box 167, "Eggs," 94, Farncombe Street, London, S.E.16.

### PARTNERSHIP.

Lady wishes to meet another with Small Poultry Farm and Garden, near London; willing to share work, and expenses in return for comfortable home. Interview. References.—A. F. C., "Vankarier," Highbury, Hitchin, Herts.

### PUPILS.

The **ELTY POULTRY FARMING SCHOOL**, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outkirts Bristol; 30 acres; 6,000 eggs incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

**LADY PUPIL** Wanted, for up-to-date Farm. All branches taught; tuition for services rendered.—Tansyknowe Poultry Farm, Bothwell, Lanarkshire.

**BEECHES POULTRY FARM, MOBBELEY, CHESHIRE.** Vacancy for One Pupil. All branches of Pedigree Utility Poultry Farming. Trap-neets, construction of appliances, etc. Pedigree herd of pigs. No fees. Accommodation near at hand.

### EXCHANGE.

To Exchange.—Four Cam Padman Cockerels, sire's dam 276, hens 220-296, for our same strain, as good April hatched.—Moncrieff's Poultry Farm, Little Mongeham, Deal, Kent.

## WANTED. DUCKS.

Wanted, Two **MUSKOVY** Drakes, 1922 hatched.—Price and particulars to Miss Pitcairn, The White Cottage, Amporn, Andover.

### MISCELLANEOUS.

Wanted.—One Hannaford's "POPULAR" HOUSE, No. 2; One Hannaford's PIONEER Hover; Two Hebditch's "TRIUMPH" HOUSE; One Hebditch's "DREADNOUGHT" HOUSE; 100-EGG INCUBATOR. Complete and in good order, delivered Ringwood.—Lyon, Leys, Fordingbridge.

Wanted, **AUSTRALORP** Hens, 1920 or 1921; genuine pedigree strain.—Mrs. Rush-ton, Barnacre Lodge, Garstang.

### COTTAGE AND LAND WANTED.

about eight acres; state particulars.—Seed, 191, Park Avenue, Barrow-in-Furness.

### BREEDING PEN.

Wanted, **BREEDING PEN**, **BUFF WYANDOTTES**.—Tucker, Roseville Terrace, Cross Gates, Leeds.

### SITUATIONS WANTED.

Wanted, by **GENTLEWOMAN**, experienced in all branches of Poultry, Post in Egg Room of Large Commercial Egg Farm, or capable of taking entire charge of poultry.—Box 165, "Eggs," 94, Farncombe Street, London, S.E.16.

**TEMPORARY WORK** (1-12 months) Wanted by Manager and his Assistant, awaiting possession own farm. Eight years' experience Utility, also Carpentry and General Farming. Low salary accepted.—Address to October 14, despatch, Hodgson, St. Mawes, Falmouth; after c/o S.P.B.A. Stand, Dairy Show, Islington, N.

**LADY** Wants Situation to assist with Poultry and Goats; good references.—Box 169, "Eggs," 94, Farncombe Street, London, S.E.16.

## Time and Tide—

Wait for no Man!  
Embark now on the Tide  
of Publicity by using

**"EGGS"**

CLASSIFIED

ADVERTISEMENTS.

Powerful little Currents  
Moving in Profitable Channels

## LIGHT SUSSEX

True Dual Purpose Birds from the Strain which led all breeds for the five winter months in the **Northern Laying Competition**, and led in Section 4 in the **National Laying Test** to the end of February.

**WELL-GROWN PEDIGREE PULLETS AND  
COCKERELS FOR SALE.**

*Apply Poultry Manager—*

**M. W. SLADE,**  
**Mallard's Court, Stokenchurch,**  
**HIGH WYCOMBE, BUCKS.**

## THE EVENT OF THE SEASON.

THE DAIRY SHOW NUMBER of "EGGS" will be published on Wednesday, 18th October, and will be on sale at the stand of the Scientific Poultry Breeders' Association at the Show on that morning. Many thousands of extra copies will be published, in addition to its ordinary circulation, which is more than forty per cent. above the circulation of "EGGS" at the last Dairy Show.

It will be an enlarged edition, full of information and instructive and helpful articles by experts in the Poultry Industry.

If you have anything to sell to Poultry Keepers you should be represented in this issue.

The space allotted to advertisements will be limited, and we must receive them not later than 13th October.

The rates are:—Two pages, £17; One Page, £8 15s. 6d.; Half Page, £4 7s. 9d.; One Column (third of page), £2 18s. 6d.; Quarter Page, £2 4s. 0d.; Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; One Inch, 6s. 6d.

Lose no time in preparing your advertisement for

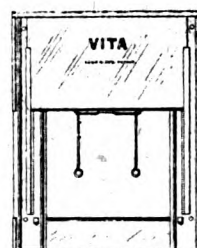
**The Dairy Show Number of "Eggs."**

## INSTALL THE All "VITA" Metal TRAP-NEST FRONT.

BECAUSE it is not made by hand labour, but manufactured on modern machines in large quantities, and is therefore the cheapest in first cost and cheapest always.

**CANNOT WARP OR CRACK.**

THE NEST EVERYONE IS USING FOR DUCKS.



SET.

A SINGLE  
ACTION  
RESETS  
THE NEST  
OR LOCKS  
IT OPEN.



OPEN.

**THORP RODERICK MFG. CO.**

**32, BROADWAY, BEDFORD.**

## BUCKEYE THE PERFECT INCUBATOR

"Built up to a Standard  
Not down to a Price."

**"A CHICK from EVERY HATCHABLE EGG"**

That's what you want, and the Buckeye will give you just that.

Everybody should use the BUCKEYE—  
Big Breeders or Little Breeders—  
1,000 Chicks a Year, or One Hundred!

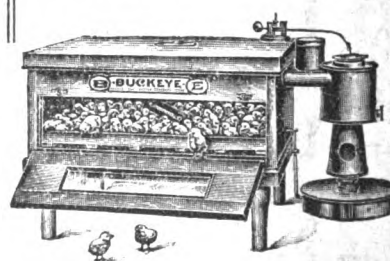
The Buckeye operates automatically and can't go wrong. We are so sure of its never-failing performance that we guarantee it to hatch more and better chicks than any other incubator, regardless of price.

Sole Selling Agents for the United Kingdom:

**W. B. FORDHAM & SONS, Limited,**

(Dept. A) 36-40, York Rd., King's Cross, LONDON, N.1.

FULLY ILLUSTRATED PRICE LIST UPON APPLICATION



See OUR EXHIBIT  
AT THE  
DAIRY SHOW,  
Stand No. 25  
Main Hall.

# SMASH FENCING PRICES

*Here's Your Chance to Save Money*

**Grasp this opportunity now, it can never be repeated.**

**W**HEN you are building the fences round your new breeding pens why use the old style fine wire open mesh wire netting when you can build your fence with this marvellously strong steel wire mesh fencing at a lower cost? Don't use boarding or galvanised iron at the bottom of your fences—use steel wire mesh—your birds cannot fight through it, and it breaks the force of the strongest wind. For a six-foot fence use steel wire mesh at the bottom and ordinary 3-inch mesh wire netting at the top, thus getting the cheapest, best and strongest fence on the market.

Steel wire mesh fence is rust-proof and guaranteed proof against all weathers, and it will last over twenty years without necessity of repair. Once the stock is sold similar material can never again be offered at this ridiculous price. So do not hesitate but order all you want **N O W**.

#### OTHER USES.

**FOR BROODERS.**—You can make Brooders absolutely rat and vermin proof by covering the bottom with this material at a cost of less than a shilling.

**FOR SITTING COOPS.**—You can give the birds the maximum of fresh air by using a front covered by this material, also making the coop rat-proof at a cost of a few pence.

**FOR BROODER-HOUSE FENCING.**—You should have rat-proof fences for your Brooder-house runs. There is nothing to beat this material, and at the bargain price of this material its cost is a mere trifle.

**FOR BROODER STOVE GUARDS.**—To keep your chicks safe from the fire you want a fireguard; the usual materials are of little use, but this material is unbeatable, making your stove absolutely fireproof at a cost of a few pence.

THIS IS THE MATERIAL.

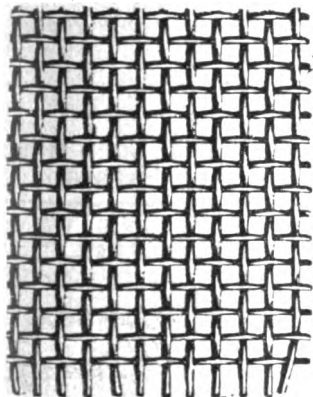


Illustration drawn exact size.

## LOOK AT THE PRICE!

Rolls 70 feet long by 36in. wide, containing 200 super feet.

**20/- per roll.**

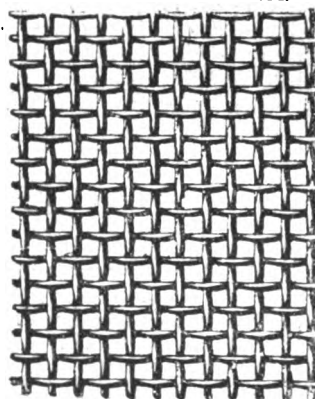
Rolls 100 feet long by 36in. wide, containing 300 super feet.

**30/- per roll.**

Free on Rail. Cash with Order.

**It is NOW or NEVER.**

THIS IS THE MATERIAL.



Note the closeness of the Mesh.

# A. E. W. PHIPPS,

**Midland Works, No. 4 HARBORNE, BIRMINGHAM.**



### GOVERNMENT SURPLUS. Galvanized Steel Bins.



Unused. Rat-Proof.  
Hold 14 cwt. Corn.  
of 17 gallons.

Wood Cases, 28 x 17 x  
14in.

1 to 5. 6 to 11. 12 up.  
4/3 ea. 4/- ea. 3/9 ea.

Big Bargains.

**H. GORDON (T.)**

166, LINDEN ROAD,  
**GLOUCESTER.**

Try us for your WET AND DRY MASHES.  
made to your own requirements.

We offer the following:—

	per cwt.
NEWMAN'S POULTRY MASH	15 0
MIDD'S	11 0
BEAN BROAD	11 0
BEAN ORDINARY	8 0
MAIZE GLUTEN FEED	12 0
SUSSEX GROUND OATS	20 0
BISCUIT MEAL	22 0
CLOVER MEAL	18 0
ENGLISH CLIPPED OATS	16 0
Special Line Best MEAT MEAL	21 0

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

### The 'QUENIBOROUGH'



A most Useful Poultry House, well and substan-  
tially built. Complete. No Extras.

8ft. x 5ft. x 5ft. 6in., £4/17/6. Floor 10/6  
8ft. x 5ft. x 5ft., £7/0/0. Floor 21/-.

5 per cent. Discount to Members S.P.B.A.

Carriage Paid. Catalogue Free.

**W. & T. MARKHAM,**  
DEPT A., QUENIBOROUGH, LEICS.

### "ZENITH TRAP-NEST"

As used by the Large Poultry Keepers.  
Also in the Premier Laying Competitions.

FRONTS, 3/- each, carriage paid.

**WIGNALL,**

Poultry Appliance Builder,  
LONGTON, Near PRESTON.



### Exhibition and Pure-Bred Utility Birds.

**LIGHT SUSSEX.**—1st and Sp., Lewes. 1st and Sp.,  
Redhill. 1st and Sp., Tunbridge Wells. 2nd  
Utility, Crystal Palace, etc.

**WHITE LEGHORNS.**—1st Redhill. 1st, Uckfield. 1st,  
Sussex Agricultural, etc.

**BLACK LEGHORNS.**—1st and Sp., Lewes. 1st Royal  
Counties. 1st. Royal. 1st, Tunbridge Wells,  
etc., etc.

**TOULOUSE GEESE, AYLESBURY DUCKS.**

**COCKERELS:** 21/- to £3 3s. 0d.

**PULLETS:** 17/6 to £2 2s. 0d.

All Birds sent on Four Days' Approval.

All Birds Trap-nested. Only L2 Birds bred from.  
Please note Change of Address, and when in our  
neighbourhood do not fail to visit our new 110 ACRE  
MODEL FARM. Write today for Free Illustrated  
Price List to

**MRS. HARRY KENT,**  
**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**  
Station: PEVENSEY or BEXHILL.

## TIMBER! TIMBER! TIMBER!

T. G. and B. Boards.

1in. x 5in.	13s. 0d.
2in. x 5in.	10s. 9d.
3in. x 5in.	9s. 3d.
4in. x 5in.	10s. 0d.
5in. x 5in.	7s. 3d.

Plywood (Birch).

3 M/M 59in. x 39in. 10s

Good Quality  
Battens.

3in. x 6in.	38s. 0d.
3in. x 3in.	17s. 6d.
3in. x 4in.	24s. 6d.
2in. x 3in.	12s. 0d.
2in. x 2in.	8s. 0d.
2in. x 4in.	15s. 0d.
1 1/2in. x 2in.	5s. 0d.
1in. x 2in.	4s. 3d.
3/4in. x 2in.	2s. 6d.

Weather Boards.

3in. x 5in.	7s. 6d.
3in. x 4in.	6s. 6d.

Sawn Boards.

3in. x 5in.	7s. 6d.
3in. x 5in.	8s. 6d.
3in. x 5in.	11s. 6d.

Spiking, 4d. per length  
extra.

ANY SPECIFIED LENGTH CUT.

All Prices per 100 feet, carriage paid on orders over £2.  
Please Send Cash with order, and also state nearest railway station.  
Good Quality Roofing Felt in Rolls, 12 yards x 36in., at 6s. 3d. per roll.  
FOR A SQUARE DEAL. SEND YOUR ORDERS TO

## STANLEY BARNES & Co., Timber Merchants

Phone: 2183 CENTRAL. **67, Dale Street, LIVERPOOL.**

**G. R. PINDER, M.S.P.B.A., N.U.P.S**

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

All are Guaranteed to have L2 winter  
records of 45-60 large eggs, and have been  
bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

**STOCK COCKERELS.** Now is the time to  
book a good bird bred from individual high  
record hen in W. Leghorns, W. 'Dottes.

R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Linndsey Poultry Farm, Carlton, Louth, Lincs.

Here we are Again!

### BARGAINS in POULTRY FOODS

Best White Wheat, 16/- per cwt.; Best  
Clipped White Oats, 14/- cwt.; Best Poultry  
Mixture, 13/6 cwt.; New Round Maize, 12/-  
cwt.; Oyster Shell, 7/- cwt.; Grit, 5/6 cwt.;  
Sweet Clover Meal, 10/- cwt.; Complete Lar-  
ing Meal, 12/- cwt.; Best Fish Meal, 14/-  
cwt.; Best Meat Meal, 18/- cwt.; Best White  
Dart, 12/- cwt.; No. 2 Fowl Corn, 12/6 cwt.;  
Middlings, 11/6 cwt.; Bran, 9/6 cwt.; Green  
Bone, Best Egg Producer, 15/- cwt. Prompt  
Despatch. F.O.R.

MARCH 1922 PULLETS, 7/-.

**G. THISTLEWAITE, Corn Miller**  
Wavertree Road, LIVERPOOL.

## H. S. HODGES,

Knowle Poultry Farm,

**HEATHFIELD, SUSSEX.**

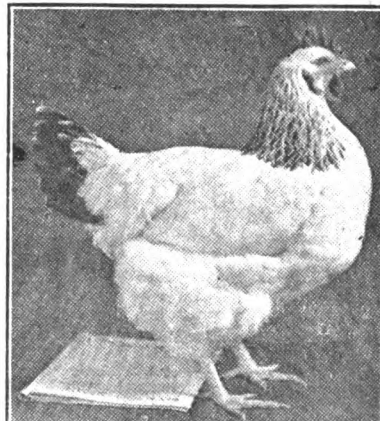
Oldest Strain of Sussex. Established 1905.

200 Light Sussex Pullets, all ages, from 12/6.  
Cockerels and 1921 Breeding Pens.

Speckled, Red, Brown, Sussex.  
Mixed Pure Sussex Eggs for Incubators.  
£3 per 100.

12 March '22 Faverolle Pullets, soon lay.  
15/- each.

12 Ancona, '22, May Pullets, 6/- each.  
70 White Leghorn Pullets, May, '22, hatched  
from birds from Frank Snowden's Test  
Pen, 15/- each for quick sale, to make room  
for Sussex.



# LESLIE WILLIAMS

## IMPORTANT SALE.

**O**WING to the necessity for enlarging my plant to cope with enormously increased business I have purchased a property in Hampshire. To avoid large expenses in moving thousands of birds I have decided to sell all stock birds which I have for disposal by Auction in Grantham at Mr. Golding's Poultry Sale Rooms, on Wednesday, October 25th. Should clients wish for stock birds personally selected by me, I must request them to order same before the sale, as during moving operations it will be impossible to attend to correspondence. The future address of the Farm will be published in all poultry papers as soon as I am ready to re-commence business.

**I** HAVE certain Laying Houses, Brooder Houses, etc., for Sale. These will be open to inspection at any time, and will **not** be included in the Auction.

**T**O those who wish to purchase birds previous to the sale, the prices are as follows:—

1922 PULLETS	-	-	20/- and 30/- Each.
1922 COCKERELS	-	-	15/- to 60/- "
1921 HENS	-	-	15/- to 40/- "
1921 COCKS	-	-	20/- to 50/- "

Present Address—

**Easton, Grantham,**  
LINCS.

"Eggs" gives to Advertisers and their goods a prestige and quality reputation that no other publication can give.

### FOR EGG PRODUCTION

USE

### "WYECOT" DRY MASH.

15/- per cwt. £14 per ton.

This well-balanced Mash is prepared to the formula as used by Capt. Frank Harrison, A.B.S.A., S.P.B.A., Wyecot Poultry Farm, Brook, Ashford, Kent, who knows from experience it is a successful egg producer.

Free on Rail. Bags included.

Cash with Order.

Look in last week's "Eggs" for prices of our other Poultry Foods. Samples and prices free on application.

**W. HANCOCK & Son, (Dept. E).**

MERSHAM MILLS, ASHFORD, KENT.

### Mrs. PIERCE-GROVE, M.S.P.B.A., N.U.P.S., STOKE COURT.

Breeder Utility White Leghorns and White Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pens.

FOR SALE.

WHITE LEGHORN COCKERELS.  
WHITE WYANDOTTE COCKERELS.

Early February and March hatched, splendid, well-matured, and vigorous birds, bred from my own well-known strain 1921 hens, mated to magnificent cockerels (proved splendid breeders), imported direct from Solly's famous egg farm in British Columbia. These cockerels guaranteed from dam 230 specially large eggs.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best 3,000 Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply to The Earl of Eltham, Stoke Court, Stoke St. Mary, Taunton.

## BEST ENGLISH RINGS

These are **NOT** the Cheap Imported but English Made.



LARGE  
STOCKS  
HELD.



### SPIRALS IN TEN COLOURS.

Red, Green, Light Blue, Violet, Dark Blue, Yellow, Pink, Brown, Black, White.  
FLAT BANDS. in 10 plain colours, 5 strips. Aluminium, any Number and Year.

	500	400	300	150	100	50	25
Day-Olds	10/-	8/-	6/-	3/-	2/-	1/3	1/6
2 months	13/6	11/-	8/3	4/3	3/-	2/-	1/3
Half-Grown	15/-	12/-	9/6	5/-	3/6	2/-	1/4
Light Breeds	25/-	20/-	15/6	8/3	5/6	3/-	1/4
Heavies	26/-	21/-	16/6	8/6	6/3	3/3	2/-

All Subject to 5 per cent. Discount.  
An Extra 5 per cent. to M.S.P.B.A.  
Post Free.



FULL LIST  
POST  
FREE.



### ENAMELLED CLOTH FOR SHUTTERS.

6/- square yard; 6 yards, 5/6 yard; 12 yards, 5/3 yard.

### VERMICIDE.

A most powerful Killer of Vermin and all parasite life, a good disinfectant for Incubators, Brooders, Houses, etc., etc.

ONCE USED, ALWAYS USED.  
1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6; Gallon, 8/6.  
Carriage Paid.  
Less 5 per cent., S.P.B.A.

### PENETRAS.

FINEST PRESERVATIVE ON THE MARKET.

Not the Ordinary so-called Creosote.  
1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal.; 40 gals. (or about), cask £2 10s. 0d.  
Tins free. Cask Charged. Car. forward.  
Less 5 per cent. S.P.B.A.

### FENCING STAKES.

Per 12. Pointed and Penetrated.  
4ft., 6/6; 5ft., 7/3; 5ft., 8/-; 5ft., 8/6;  
6ft., 9/3; 7ft., 10/-; 7ft., 10/6.  
Less 5 per cent., and an extra 5 per cent. to S.P.B.A. All Carriage Forward.

### GALV. WIRE NETTING.

24in. 36in. 48in. 60in. 72in.  
1in. 17/2 24/5 32/7 41/7 48/9  
2in. 10/6 14/3 19/- 23/9 28/6  
3in. 7/11 10/11 14/6 18/2 21/9  
Per Roll, 50 yards. Carriage paid orders 5/-.  
Less 2 1/2 per cent., and an extra 2 1/2 per cent. S.P.B.A.

### FINE BISCUIT MEAL.

As used on my own farm. Splendid Egg producer and doubles its bulk, 24/- cwt. Carriage paid.

Reduction on ton lots.  
FLINT GRIT, 5/6 cwt., carriage ford.  
OYSTER SHELL, 10/- cwt., carriage ford.  
COCKLE SHELL, 7/9 cwt., carriage ford.  
Less 5 per cent., and an extra 5 per cent. S.P.B.A.

### TRAP-NEST FRONTS.

One of the Simplest and Noiseless Traps on the market.  
4/6 each, post free. Six or more, 4/- each. Reduction on large quantities.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.,**  
The Leading Maker of Good Appliances in this country.

Hamworthy Junction, Dorset.

## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**



THE GREEN-CLOVER MEAL PEOPLE.

*If you want Autumn and Winter Eggs*

**Don't let your hens 'hang' in their moult.**

As soon as they have shed most of their old plumage give them our GROWING or FEATHERING MASH for a few weeks; it may easily make a month or two's difference to their starting to lay again.

*May we send you our September Price List.*

**THE STEYNE FOODS Co.,**  
STEYNING, SUSSEX.

### MINERAL SALTS

A high-grade mild aperient containing valuable Iron Tonic properties. For birds in the moult and for generally toning up the system it has no equal.

*In patent air-tight tins,  
2-lb. size, 2/6. 4-lb. size, 3/9  
CARRIAGE PAID.*

**The Cost is next to nothing—  
LESS THAN A FARTHING PER BIRD.**

**ALBION THORPE & SONS,**  
POULTRY FOOD MAKERS, RYE, SUSSEX

### POULTRY BREEDERS

#### DRIED YEAST. Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	26.22
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

#### OSSIFIED YEAST. Analysis.

	per cent.
Moisture	6.86
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
*Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
† " Phosphate of Lime	18.80
Sand and Silicious matter	0.23
Total Food Units	150

#### PRICES:—

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

### MOORSWOOD POULTRY FARM,

HERONS GHYLL, UCKFIELD, SUSSEX

Proprietors: Mrs. James Hope & Miss A. Howard  
Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

PULLETS from £1. COCKERELS from £1 1s.  
A Limited Number of 1921 PULLETS at 12/6.

### THE 1923.

**The Register and Year Book**

OF THE

**Scientific Poultry Breeders' Association**

Only a short time now remains before we go to press with the 1923 edition of Annual Register. Those firms and individuals who have anything to sell to enthusiastic Poultry Keepers, who have already booked their space in this should not delay further, because a limited amount of space available for advertisement now remains, and the closing date is 18th October.

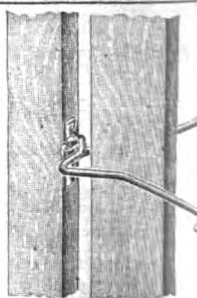
A copy of the Year Book is sent to every Member of the Scientific Poultry Breeders' Association, each of whom is an editor out for the best he can buy and with money to indulge in his fancy. In addition a large number will be sold to Poultry Keepers throughout the country.

The rates are:—To MEMBERS: 1/24 0s. 0d.; Half Page, 2/25 0s. 0d.; Quarter Page, 1/26 0s. 0d.; Breeder's Card, 8s. 0d. NON-MEMBERS: One Page, 2/27 0s. 0d.; Half Page, 1/28 0s. 0d.; Quarter Page, 1/29 0s. 0d.; Breeder's Card, 8s. 0d.

Communications respecting advertisements should be addressed to Mr. Churchyard, 94, Farncombe Street, London, S.E.16.

### THE ABDUCTOR POULTRY GATE LATCH

of utility  
simplicity,  
durability,  
and  
cheapness.  
Used on  
up-to-date  
farms  
throughout  
the country.  
Cannot go  
wrong or get  
out of order,  
and will last  
a lifetime.  
Price: 1/-  
each.  
Postage, 4d.  
extra each.  
6 or 12, 1/-  
extra postage.

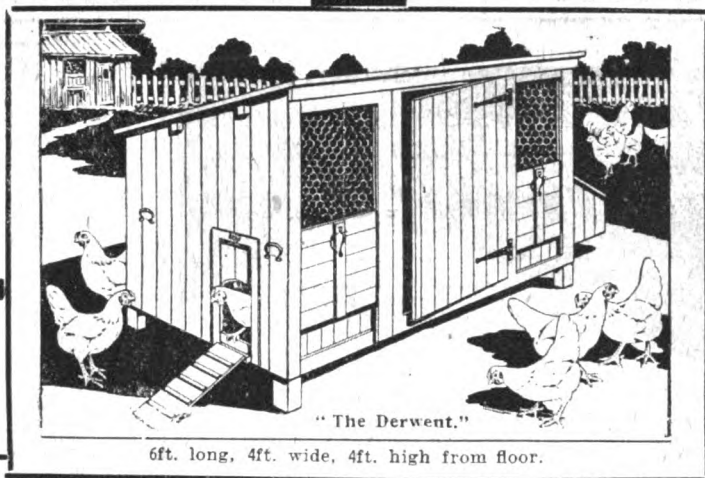


Patent No. 167918  
Sole Manufacturers  
R. O'H.P. THEOBALDS, White Wings,  
St. Mary Bourne, Nr. Andover.

Very Special Value in Poultry Houses at  
**HEBDITCH'S**

**IMPORTANT.**  
All Hebditch's Poultry Houses are made of best Swedish deal boards - V - jointed tongued, and grooved and nicely planed. They are all made in sections, and with them are sent screws or bolts for erecting.

THE  
**"DERWENT"**  
Raised 1ft. from the ground.  
A New Design, selling well.

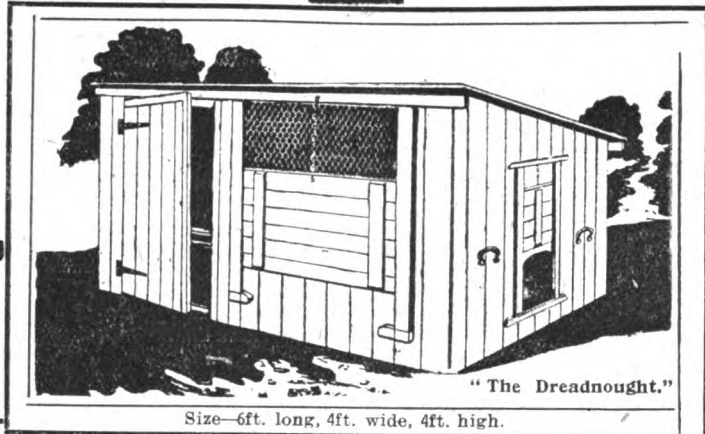


**IMPORTANT DETAILS**  
Nest-boxes are also provided, and hen doors. Hen ladders are fitted to the raised Houses.

**Price**  
**£3 7s. 0d.**  
NO extra charge for floor.  
Nest Boxes 12/- extra.

**NOTE.**  
Every House is provided with a strong door, hung on stout hinges. It also has a good press lock and key.

THE WELL-KNOWN  
**"DREADNOUGHT"**  
POULTRY HOUSE.  
The very best VALUE-FOR-MONEY HOUSE OBTAINABLE.

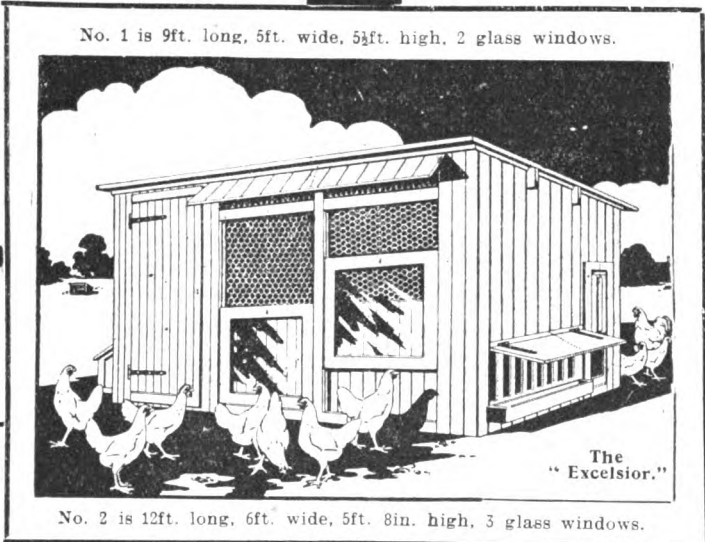


**P.S.**  
Any House can, if desired be pickled by immersion in Preserolium at an extra cost of 1/6 in the £.

**Price**  
**£2 6s. 0d.**  
THREE for £6 13s. 6d. SIX for £13 2s. 6d. FLOORS 13/- extra.

**NOTICE.**  
Every House is provided with sliding shutter or shutters, suspended on chain, wire - netted windows, and strong 2 x 1 1/2 perches, also handles where required.

THE POPULAR  
**"EXCELSIOR"**  
SEMI-INTENSIVE HOUSE.  
Provided with a wide dropping-board and perch whole length of House. It is a very widely used House.



**CARRIAGE PAID.**  
All our Poultry Houses are carriage paid to any goods station in England or Wales. Any House can be despatched on receipt of order.

**Prices:**  
**No. 1 - £7 8s. 0d.**  
Floor 26/6 extra.  
**No. 2 - £9 15s. 6d.**  
Floor 39/- extra.

BRITAIN'S  
PREMIER  
POULTRY  
APPLIANCE  
MAKERS.

Poultry  
Appliance  
Makers to  
His Majesty  
the King and  
to His Royal  
Highness the  
Prince of Wales

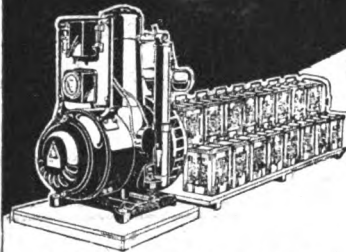
**HARRY HEBDITCH, Ltd.,**  
Desk J, MARTOCK, SOMERSET.  
SEND FOR THE FREE CATALOGUE and REDUCED PRICE LIST.



Early-hatched s.c. R.I.R. Cockerels, and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Beacher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Matad Pens.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

*Let Artificial Lighting in the Pen  
increase the laying power of your hens*



Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office: 75, Victoria Street, Westminster, S.W.1.

**ROBERT MILLER,**  
DENNY, SCOTLAND

AT STAND 132,  
DAIRY SHOW, LONDON.

His Exchequers,  
Peerless Houses,  
Incubators and Brooders

**The CENTRE of  
ATTRACTION.**

**Awarded Silver Medal**  
(Highest Award)  
**FOR BEST POULTRY APPLIANCES**

at Royal Lancs Show  
Last Month against all comers.

Beautiful Art Catalogue  
with Latest Reduced Price for 1923  
Post Free.

### 1922 PULLETS.

#### MAJOR HEAPS,

The Villa, Rosehill, Market Drayton, Salop.  
Has February-March Pullets for Sale.  
L. Sussex, W. Wyandottes, 15/- to 25/-  
W. Leghorns. April, bred from his "Daily Express" and S.P.B.A. Winners, 15/- to 30/-  
Cockerels of above Breeds from 20/-  
1921 Hens for Breeding Pens.



5% Discount on all  
if orders received  
through the S.P.B.A.

Bags free, car. paid  
England & Wales.

Samples Free on  
Application.

	per cwt.	s. d.
MEAT MEAL (18 per cent. Oil, 46 per cent. Albuminoids, 19.5 per cent. Phosphates)	22	0
MEAT and BONE (Grade I., (11 per cent. Oil, 33 per cent. Alb., 37 per cent. Phosphates)	20	0
MEAT and BONE (Grade II., 8.5 per cent. Oil, 36 per cent. Alb., 39.5 per cent. Phosphates)	19	0
PRESERVED GREEN BONE, Finely Ground (6.5 per cent. Oil, 32 per cent. Alb., 46 per cent. Phosphates)	18	0

Sole Manufacturers:

**The DENTON MANUFACTURING CO.**  
DENTON, Near NEWHAVEN, SUSSEX.

### JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

#### EGGS and STOCK BIRDS and DRAKES.

Eggs per doz., 6/-, 100, 40/-. 1922 Cockerels, 15/-, 1921 Pullets, 10/- White and Black Leghorn and Minorca 1922 Pullets, 7/6 to 10/-. Breeds kept: Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Sussex, R.I.R., Brd., Rks., Bl., W. and Brn. Leghorn, Buff and White Orpington, Aylesburys, Khaki-C's, Buff Orpingtons, and Runners (both colours).

## IF YOU LIVE

Five thousand miles away, don't waste time—and ours—by writing us.  
Get your Goods nearer and save carriage.

But if you live anywhere in the West of England, these Prices should interest you.

New English Wheat	...
New English Oats	...
Clipped and Screened Oats	...
Kibbled Plate Maize (Screened)	...
Sharps	...
Broad Bran	...
White Middlings	...
Pullet Mixture (from the Best Old Hard Grain)	...
Poultry Corn	...
Dari	...
Maize Meal	...
Maize Germ Meal	...
Maize Gluten Meal	...
Ground Oats	...
Newman's Poultry Mash	...
Flaked Maize	...
Biscuit Meal (Graded)	...
Biscuit Meal (Fine)	...
Limestone Grit	...
Cockle Shell	...
Oyster Shell	...

Cash with Order. Bags Free. Carriage Forward.

**FRANK SHEARN & Co., Ltd.**  
MIDSOMER NORTON, SOM.

'Phone 51.

**"Poultry Foods and Feeding"**

ALSO

**"Chicken Rearing."**

BY

**TOM NEWMAN**

*Rudgwick, Sussex*

Price 6½d. Each,  
Post Free.

**Mrs. ALEC WILSON**

Offers for December Date

**White Wyandotte Cocks  
and Cockerels, also  
Pullets (now in lay)**

From her Prize-winning, Trained  
nested Strains.

Write for Free Catalogue.

**GARTH WYANDOTTE FARM**  
GARTH, BRECONSHIRE.



October 11th, 1922.

## EGGS.

DON'T FAIL TO VISIT THIS WONDERFUL EXHIBITION OF LIVE STOCK AND LATEST POULTRY APPLIANCES.

THE SECOND

# Great National Poultry, Pigeon and Rabbit Show, LEICESTER,

To be Held in

THE JUNIOR TRAINING HALL and THE EMPRESS RINK (one building),  
1st and 2nd November.

460 CLASSES. PRIZES OVER £1,000. LEADING JUDGES.

The following Fourteen Club Shows are being held:—

Black Wyandotte Club.	British Minorca Club.
Plymouth Rock Society.	Partridge Wyandotte Club.
Austral Orpington Club.	Sicilian Buttercup Club.
White Leghorn Club.	Russian Orloff Club.
Blue Leghorn Club.	Faverolles Club.

BANTAM CLUB SHOWS:

Minorca Bantam Club. Sebright Bantam Club.

PIGEONS:—Mottle, Rosewing, and Whiteside Club.

RABBITS:—The Beveren Club.

SMALL ENTRANCE FEES. FOUR PRIZES IN EACH CLASS OF POULTRY: 20s., 15s., 10s., 5s.

CHEAP RAILWAY FARES ARRANGED.

ENTRIES CLOSE 18th OCTOBER.

Secretary, 8, Chatham Street, Leicester.

# TETNITE

(TRADE MARK)

# FISH MEAL

THE GREAT EGG PRODUCER.

"TETNITE FISH MEAL" is unrivalled for Egg Production and building up sturdy chickens; it is of supreme quality, and can be relied upon—always.  
21/- per cwt. 13/- per ½-cwt. 7/- per ¼-cwt.  
Supplies can be obtained with a special discount through the S.P.B.A.  
Carriage paid to any station in Great Britain.  
Cash with order. A Copy of Illustrated Feeding Pamphlet free with every order.  
**TETNEY OIL & MEAL CO. LTD.,**  
101, Leadenhall Street, London, E.C.3.

PURE SWEET STERILISED BLOOD.

**RENTOX** (Regd.).

7 lb. bag sent post free for 5s.

Full Particulars on request.

HIGHLAND CATTLE PRODUCTS, Ltd.  
BORDSLEY STREET,  
BIRMINGHAM.

## COCKEREL BOXES

21/6 each. Carriage Paid.

Every purchaser delighted. Send for our Catalogue giving full particulars.

**The Surrey Value Co. (Dept. 2),**  
Redhill. 'Phone 290.

# Leckhampton Poultry Grit.

THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

Analysis—

Calcium Carbonate ... ..	89.30	Calcium Sulphate ... ..	traces only
Silica ... ..	3.03	Moisture, organic matter, etc.	3.19
Oxides of Iron and Alumina .	3.92		
Calcium Phosphate ... ..	.56		
			100.00

PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £2 10s. 0d. per ½ ton;  
£4 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per ½ ton;  
£3 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

# Not

because WE say our birds are in every way to be commended,

# But

because customers and others who have seen our farm are so well satisfied, should you send us your enquiries.

## High Praise Indeed.

E. Hales, Esq. Sandown, Isle of Wight.  
West Mersey Poultry Farm. 13th Sept., 1922.

Dear Mr. Hales,—

I enjoyed my recent visit to your farm exceedingly, and was quite pleased to note the excellent quality and type of the stock you are breeding.

You realise the importance I attach to type and stamina for egg production, and providing you select on the lines you have intimated there is no doubt you will possess some of the finest breeding pens possible.

A. PRIEST.

Newlands Poultry Farm,  
Wigmore, near Chatham.

8th Sept., 1922.

Dear Sir,—

Received Cockerels yesterday, in good condition. They are splendid birds, and I am very pleased with them. I hope they will be as good as they look in the breeding pens.

W. PYSDEN.

12, Victoria Road.

Madeley, Salop.

15/9/22.

Mr. E. Hales.

Dear Sir,—

Received birds on Thursday quite safe. I am delighted with them. They are a fine lot. I will write you again later on and let you know how they go on, and what my poultry friends say of them.

I have sent the crate back to-day; this will speak for itself. I do not want to keep them for the three days for approval: am well satisfied first hour. Two of them laid last night and one again to-day.

J. E. G. ASTON.

All Breeding Pens & 1921 Cockerels now sold

Only a few February hatched 1921 Pullets left. W. Leghorns (Padman and Newman

R. I. R. (s.c) Crowley and Boucher or Crowley strain.

Price, 12/6 to 15/- each, carr. paid.

All Birds on Approval four days.

Further particulars as to Egg Records, etc., with pleasure.

## West Mersea Poultry Farm,

ESSEX,

Nr. COLCHESTER G.E.Ry.

## EXCEPTIONAL OPPORTUNITY.

**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.

**THESE ARE STRAINS OF**  
**QUALITY**

Buff Rocks, Rhode Island Reds,  
 White Wyandottes, White Leg-  
 horns, Aylesbury and Runner  
 Ducks.

**CAPT. R. C. BEATTIE**  
**Riverside P.F. Totnes, S. DEVON.**

TRAP-NESTED PEDIGREE STOCK.

**EGGS** **MATING**  
**LIST**  
**FREE.** **CHICKS**

**S. & J. PARSONS,**  
**The Poultry Farm, Musbury, Devon.**

Breeders of the Highest Class Utility White  
 Wyandottes and White Leghorns, and consistent  
 winners in the various laying competitions.

Specialist Breeders of High Pedigree Cockerels.

1922 Cockerels from 21/- to 34/- each.

1921 Cockerels from 15/- to 30/- each.

1922 Pullets (Early Hatched) 21/- to  
 42/- each.

A few Special 1920 Hens at 9/- to  
 12/6 each.

Our Book "The Secret of Egg Production," 3/-.

Further particulars on application.

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There  
 is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried  
 Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
 will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

*Also for fattening:—*

**SWEETENED CONDENSED MILK- 8 - per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH  
 ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

**BRITANNIA MILLS,  
 HEATHFIELD, SUSSEX.**

**6, BROAD STREET,  
 RATCLIFFE, LONDON, E.1.**

**NOTE THESE  
 PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in re-  
 lation to the food you now use.

**POULTRY FOODS**

Wheat ..... per cwt. 11/-  
 Kibbled Maize (Sifted) ..... 11/-  
 Clipped Oats ..... 11/-

**MEALS**

Maize Meal (fine) ..... 11/-  
 Sussex Ground Oats ..... 11/-  
 S.F.C. Dry Mash ..... 11/-  
 Bran ..... 11/-  
 Middlings ..... 11/-

ALSO—Maize (whole), Dair-  
 ley, Oat Feed, Barley Meal,  
 Cuit Meal (Poultry), Serv-  
 (fine), Cockle Shell, Flint,  
 Mixed Grit, Pure Oyster Shell,  
 K. and E. Sizes.

Prices on Application.

Resolve to try these **ECOM-  
 CAL QUALITY FOODS**  
 Order through **S.P.B.A.**  
 S.P.B.A., and get your dis-

*The* **Service Food**  
**VICTORIA MILLS**  
**GRIMSBY**

**Buy—  
 —Now**

**Be Ready for the Winter**

**SUSSEX GROUND OATS,  
 IN SUSSEX.**

**MAIZE MEAL.**

**MAIZE GERM MEAL.**

**MAIZE GLUTEN FEED.**

**DRIED YEAST.**

**FISH OR MEAT MEAL.**

**CLOVER MEAL (GREEN).**

**SHARPS OR BRAN.**

**MAIZE, WHOLE OR KIBBLED.**

**OATS, BLACK OR WHITE.**

**WHEAT.**

**GRITS OF ALL DESCRIPTIONS.**

**TRY A MIXED TON**

1 ton, 2 ton, 3, 4, or 5

**WILL SAVE YOU MONEY**

Mashes Mixed to Order.

Quotations Sent for 1 Cwt. or 1 Ton

**H. WILLOUGHBY**  
**HINCKLEY**

# DAIRY



Regd. Trade Mark.

# SHOW.

**Stand No. 161, Gallery, under the Clock.**

## OUR EXHIBITS WILL INCLUDE:—

- Scale Model New "Planok" Illuminated Fireless Brooder.
- "Planok" No. 2 Fireless Brooder and Scratching Shed.
- "Planok" No. 1 do. do. do.
- "Planok" Trapnests.
- "Planok" Egg Boxes, 6, 10 and 30 doz. Sizes.
- Special Line Egg Boxes, 24 and 30 doz. Sizes.

**WORSSAM & ABBOTT,**

**PYRCROFT HOUSE,  
CHERTSEY.**

'Phone:  
**CHERTSEY 8**

### BEST ENGLISH GALVANISED

**Wire Netting**  
OF SUPERIOR  
and GUARAN-  
TEED QUALITY.  
Heavily Galvanized.  
Direct from Factory.  
Made in Norwich,  
England. Greatly Re-  
duced Prices. £6 5s.  
lots carriage paid  
England and Wales.  
50 yard rolls.  
Our netting rolls out straight and flat  
as a carpet. If prices are lower than  
yours, it is highly probable that it is  
inferior and inferior.

**Special Lines—**  
Cash strictly net. Sole terms—Cash with  
order.

1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	gauge
Wide	Wide	Wide	Wide	Wide	Wide	
9/-	12/4	23/2	30/11	38/7	46/4	20
5/6	10/-	13/7	18/1	22/7	27/1	19
4/-	7/3	9/10	12/3	16/8	19/8	19

Dep Netting, 2-ply Selvages, 4 in. mesh, 16  
ga., 36 inch, 15/8; ditto, with centre  
rod, 17/8. Special Galvanized Netting  
plies, 3/8 per 1,000. Strong Wire Netting  
for holding bottom selvage to ground,  
per dozen. Galvanized Binding Wire,  
1 lb. Best Wire Cutters, 2/6 pair. For  
other sizes, gauges, and widths see  
our list, free. Special low quotations for  
Galvanized Barb. Fencing, Strand and  
Wires. Corrugated Galvanized Sheets  
Accessories. Sanded Roofing Felt, no  
nails required, 15 yds. x 1 yd. rolls, 5/6  
roll, carriage paid 20 rolls. Wicks'  
Famous Show Pens of guaranteed  
superior quality, 27in. x 24in., 7/6, extra  
2/-; 18in., 5/-, extra ends 1/6. Show  
Fronts, with sliding doors, 27in. x  
2/6; 18in., 2/- Strong Galvanized  
1/4, 3/4, and 1/2, each. Wicks Bros'  
artistic Line, the Poultry Keepers'  
Set, containing eleven tools, including  
mer. 2/- per set. All carriage paid.

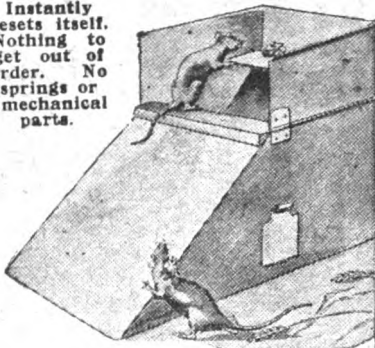
**WICKS BROS.,** Wholesale  
Wire Works,  
1, CATTLE MARKET, NORWICH.  
Tel.: 1438. Contractors to H.M. Government.  
Prices subject to alteration without  
notice.

### Hastings Sheet Metal and Poultry Appliance Works, HUGHENDEN ROAD, HASTINGS.

Awarded Certificate of Merit and Highly Commended as  
an Improved Rat Trap at Sussex Agricultural Show.

### THE EVER-READY RAT-TRAP.

Best Trap Invented. Catches Numbers in a Night.  
Instantly  
resets itself.  
Nothing to  
get out of  
order. No  
springs or  
mechanical  
parts.



No adjustments. Simple and effective.  
Made of strong Galvanized Iron. Patent  
applied for. 8490/22. Free on Rail.  
Size for Rats, each 24". Ditto for Mice, 5/8  
Liquid for putting on Bait, 1/- per bottle.  
Cash with order. Makers of all Poultry  
Appliances. Write for our Price List.

**TRAP-NESTING CARDS,** 6 1/2 x 12 1/2 inches.  
1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.  
**Trap-Nesting Record Books,** 6/-.  
**Hatching Record Books,** 7/6 and 11/-.  
**Stud Books for Poultry,** 6/-.  
**Incubator Records,** 1/3 doz.; 7/- per 100.  
**Backyarder's Complete Record,** 1d.  
Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKS, LEICESTER.

### Eggs Insured

in the  
"Pockock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

### Pedigree Utility Stock Cockerels and Pullets.

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
REDS.

Pedigree Stock Cockerels a Speciality.  
Bred from individually recorded L2  
Hens, with high winter records. All  
Stock is sent Carriage paid and on  
full approval.  
Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.),  
THE WORLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.

# EGGS.

## "UTILITY" TRADE MARK POULTRY FOODS

Real Bargains until Parcels Cleared.  
Special Offers to S.P.B.A.

	per cwt.	s. d.
500 bags Pure White Wheat Meal	12	0
500 bags Best Sussex Ground Oats	15	0
1000 bags Fine Biscuit Meal	14	0
500 bags Best Quality Fish Meal	15	0
1000 bags Maize Gluten Meal	12	6
500 bags Maize Germ Meal	11	6
1000 bags Best Mixed Fowl Corn	12	0
500 bags Heavy Clipped Oats	11	6
500 bags Dari Seed, Red 10/-, White	11	0
250 bags Manitoba Feed Wheat	10	6
200 bags Light Wheat, Good Value	8	6
100 bags Vegetable Charcoal	14	0
1000 bags Special Laying Meal, consisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal	16	0

F.O.R. Liverpool. Bags In. Cash Terms.

ARGYLE MILLS, Argyle St., LIVERPOOL

Phone: 2586 Royal. Telegrams: "Emphatic."  
Established 1869

## BRISTOL'S First ANNUAL ALL UTILITY POULTRY SHOW.

DRILL HALL, OLD MARKET STREET.

November 8th and 9th.

Entries Close 1st November.

### SCHEDULES—

Messrs. HEAMAN and NORMAN,  
29, Sloan Street, Whitehall, Bristol.

## DR. J. H. BALDWIN

SPRINGFIELD P.F. WIMBORNE DORSET

ONLY THE VERY FINEST STOCK

White Leghorns,  
White Wyandottes,

R. I. R. (C)

Bred from PENS of TESTED PARS  
and PENS headed COCKERELS Bred  
PROVED L2 Birds.

If you get them from "HOMELAST" it means  
SATISFACTION!

ANCONAS, and THE ADJUSTABLE  
TRAP-NEST FRONT

(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

VICTOR P. WILLIAMS,

Homeatlast Poultry Farm, BEXHILL, SUSSEX  
A Small Farm with a Big Reputation.

BARNEVELDER PULLE  
Breeding Pens of 20-25  
dotters.

LAKENVELDER. Summ  
mouth Rocks, and all  
Also all kinds of W  
Pheasants, White, Black  
Specifer Pea Fowl, P  
Threespence for Reply.  
now for Eggs.

G. VAN HECK, 199, Amst  
Many Testimonials as to

# Cerema

MARMITE

## Vitamin Poultry Food

Sent direct to Poultry Farmers.  
In view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3

## Better Birds —more Eggs

THIS preparation contains the  
important B. Vitamin  
essential for the health  
Birds. It may be given either  
the form of a drink by dissolving  
in water, or the solution may  
be incorporated in the mash.  
Birds will take it eagerly.  
increases their resistance  
disease and assists digestion.



Wednesday, October 18th, 1922.



## THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN.

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 16. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

# The "PIONEER" Sanitary Hover Explained.

- 
- A. FLUE for carrying off fumes and inducing current of air to feed flame of lamp.
- B. LAMP CHIMNEY of metal, with observation panel for purpose of regulating flame of lamp.
- C. LAMP RESERVOIR for oil.
- D. AIR SHAFT, giving a plentiful supply of air from above, instead of the usual dangerous method of inducing a draught across the chicks, no flame will burn without a very liberal supply of air.
- E. THERMOMETER goes right through to the compartment where the chicks are, and records the actual temperature of the chick chamber.
- F. INSPECTION WINDOW to watch the clear and even burning of the lamp.
- G. LITTER SHIELD or stand for supporting Hover. This is a metal collar with flange for attaching to the floor. It preserves a clear space among the litter for the hover to stand in, and saves any danger of crushing the chicks when replacing the Hover after cleaning.
- H. A DRAUGHT SCREEN with flange for screwing to the floor. It is a useful thing to put between the constantly opening door of the house and the chicks.
- I. HOT AIR CHAMBER over the backs of the chicks, exactly where NATURE places the warmth from the body of the real mother. This is the nearest approach to NATURE ever invented.
- J. CYLINDRICAL CHAMBER, in which the lamp rests, from which neither light nor fumes but only warmth can reach the chicks.

DO YOU FIND THESE ADVANTAGES IN ANY OTHER  
SO-CALLED HOVERS?

*My Exhibits on Stand 185 in the South  
Gallery*

will include one of the  
**BEST  
SMALL UNITS**

for rearing up to 150 chicks that  
has ever been put on the market.  
I am selling three sizes in all,  
and shall have the largest on  
show.

**YOU SHOULD SEE**  
this before placing your order.

My Representatives will give you  
all the Information possible.

**C. A. SYDENHAM HANNAFORD.** Hamworthy Junction,  
M.S.P.B.A. DORSET, ENGLAND.



# PRIEST & SHAW'S

## SPECIALITY—Scientific Breeding for Egg-Production, Pedigree Wyandotte and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

### Can Any Firm wish for Better Testimony?

Letter No. 74

Fernhill Farm,  
WOOTTON, I.W.  
Sept. 19th, 1922.

Dear Mr. Priest,—

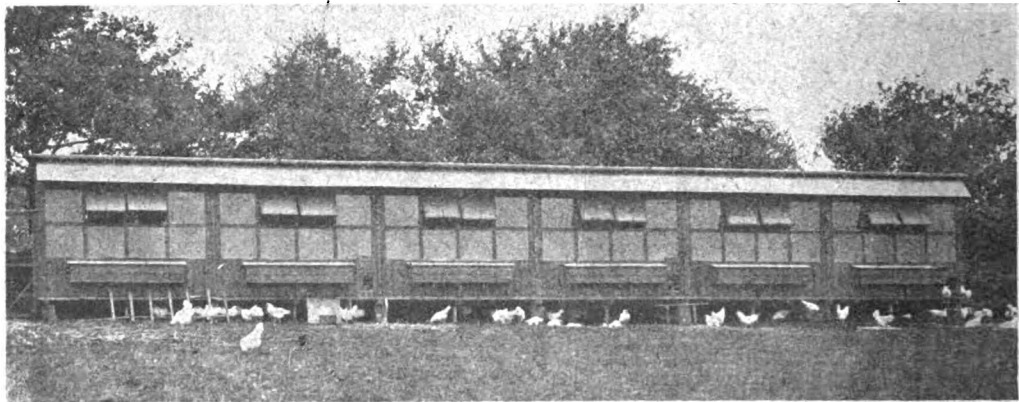
The Wyandotte pullets are simply splendid, and I am more than pleased with them. All are laying now.

With kindest regards,  
Yours truly,  
Mrs. D. WAY.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Months of September and October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

### The "PONDTAIL" Semi-Intensive House.



Illustrated Catalogue Free on Application.

3in. T and G. matching on 2in. by 3in. and 2in. by 4in. framing. Made in 10ft. sections.

	Length.	Width.	Front.	Back.	PRICE.	
No. 1	10ft.	12ft.	8ft.	5½ft.	£18	Floor Extra, £8
No. 2	20ft.	12ft.	8ft.	5½ft.	£32	" " £10
No. 3	30ft.	12ft.	8ft.	5½ft.	£46	" " £14
No. 4	40ft.	12ft.	8ft.	5½ft.	£60	" " £18

Carriage Paid. 7½ per cent. discount to Members of S.P.B.A.

**PONDTAIL POULTRY FARM** (Propr.: J. V. MILNER-LENNARD, M.S.P.A.)

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, October 18th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 8d. per annum; 6s. 4d. for six months. In 3d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Poultry, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Poultry, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP.  
**Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

### SOME CAUSES OF FAILURE.

Mr. Chairman, Ladies and Gentlemen,—My position as Secretary of your Association has given me an unique opportunity of observing some of the causes which end in the failure of many of those who venture into poultry keeping either as a hobby, or as a business proposition. There are all kinds of people, all firmly convinced that they can make the thing pay, the majority of them, when writing, tell me they are enthusiastic, fond of the country, and all hard workers; some of them cover pages with statistics, very weird are some of their figures; as you know you can prove anything by figures, all are very optimistic. One very interesting individual, who had for years kept a couple of dozen fowls unsuccesfully in a backyard, calmly asked me to raise the sum of £750 by an appeal to his fellow members through the columns of "Eggs" in order that he might make a start in Essex, and on my declining, informed me that I was evidently not one of those who would help a lame dog over the style, and that he should not renew his membership—and he didn't. One of the "hard workers," who told me he simply loved fowls, would not take a house and 8 acres of land which was found for him after a considerable trouble because there was not a golf course in the neighbourhood.

Of course, success or failure depends very largely on the individual, his aptitude for the work, which is of greater importance than a love for it, although when the two go hand in hand, they, together with power of observation, ability to adapt oneself to a particular environment and to attend to important details form a very strong combination. There are so few novices who start with any definite plan or any idea of what they need. I

should say here that many who start have been very badly trained. Some of these people who advertise that they take pupils, badly need training themselves. In many cases it is nothing but an excuse to obtain cheap labour. A pupil should be taught not only "how" to do a thing, but "why" he does it, and I would strongly advise all those who are being trained to insist on being told; the man who can't tell you "why" isn't fit to train you. Before going on any farm as a pupil make very strict enquiries as to the system of training. To follow the ordinary routine of the farm is not sufficient.

But now to come to the various phases of poultry keeping. I will try and tell you in detail where I think most failures occur. Taking first incubation, the selection and storing of eggs. It is a mistake to incubate every egg you collect, careful selection should be made, a standard should be set, the eggs should be of good shape, and the shell of good texture, weight not less than 2 ozs. Abnormally large eggs should not be incubated, they rarely hatch; thin-shelled eggs hatch badly, and the chicks they produce are weakly. An egg should be incubated as soon as possible after it is laid. I am often asked how long an egg can be kept for incubation; that is not the point. Every day means deterioration, less chance of hatching, and a more weakly chick. Many people are careless as to the storage of eggs intended for incubation. I was on a large farm in the Spring where the hatching had been very bad, and found the eggs all packed on shelves exposed to the air in a disused shed, with a door which would not shut properly and a broken window. The ideal temperature at which to store eggs is 50 degrees Fahr. They should never be stored where the temperature is below 40 degrees or above 70. The best way to store them is on their sides in bran or chaff, they should be turned once a day, but there is no need to air them and it is best not to do so.

I am sure a great mistake is made in attempting to run incubators strictly in accordance with makers' instructions, and in taking the advice of an expert until we have thoroughly studied and explained our particular environment. One of the most important things to study is the temperature of the incubator room, by this to a very great extent we can regulate the moisture supply. You know warm air carries more moisture than cold; the ideal temperature is 65 degrees, and we should not require so much moisture as when the temperature was, say, 40 degrees, below which it is not advisable to work. This was very forcibly brought home to me once. I was down in Essex. The incubators are kept at the top of the house, and were two well-known makes, one a tank machine and the other hot air. The room temperature was never below 60 degrees, and the hot air machine invariably gave a very much better hatch than the tank, in which moisture had

been supplied from the first day, while in the hot air machine it had not been supplied until the 16th day, and then only in two small trays which were absolutely futile. Acting on my advice this season, the tank machine was run without moisture until the 19th day, and it has beaten the hot air machine every time.

To take another case, these were hot water machines, run in a cellar on an earth floor, the machines were on planks about 9 inches above the floor, the cellar, being close to the river, was very damp, the temperature was pretty steady at 50 to 55 degrees. The hatches had been very bad, the chicks dying mainly on the 18th and 19th days. Contrary to maker's instructions no moisture had been added till the 16th day. Obviously this was a case which should be treated on its own merits. I advised that no moisture should be supplied at all and, although as a rule I am against the cooling of eggs, advised that they should be cooled for five minutes three times daily so that there should be more evaporation. This resulted in much better hatches, but much better still were obtained when hot air machines were substituted for tanks.

Then there is the question of temperature. I am confident that the embryo perishes or is so weakened, that it dies in the shell by too low a temperature during the first few days. Instructions are 103 degrees; with a suspended thermometer that answers very well perhaps in a 60-egg machine, but it is not correct for a 100 size, and it is still worse in the case of 240 or 390, because you have not got such an even distribution of heat over the egg drawer, consequently only round the centre of the drawer are the eggs sufficiently warm. I prefer to run at 102½ with the bulb of the thermometer resting on the eggs in the bigger machines for the first week, with the suspended thermometer at 104 the second week, and at 103 the third. That is to say, with the suspended thermometer at 105 the first week. But, as I said before, every one of us must study our own environment and particularly our machines. Given two machines of the same make, the method of running them would not be quite the same on the top of our Sussex Downs as it would be in the valley of the Thames.

### REARING.

Now to turn to rearing, one of the first mistakes a beginner makes is that he is too anxious to save every chick which comes from the incubator; it is not a bit of good trying to rear weakly chicks, better by far knock them on the head at once. There is nothing more unprofitable; in many cases they are diseased or predisposed to disease, and as such are a serious menace to the rest of the brood. The most general causes of failure I find are during the removal of the chick from the incubator, when they get chilled, overcrowding, too high a brooder temperature, over-feeding and under-feeding, failure to supply fresh green food. Between the egg drawer and the nursery drawer of an incubator there is a difference of 23 degrees in the temperature. That is too big a drop in temperature for the newly-

hatched chick, especially as many of them are in the nursery drawer before they are properly dry; the result is they often get chilled, and we get symptoms similar to the dreaded Bacillary White Diarrhoea, and which are often mistaken for the disease. Obviously it is advisable not to let the chicks drop into the nursery drawer. While I am on this subject, I would like to say one word to the vendors of day-old chicks. Many of them cried out very loudly because chicks they sent out were said to be suffering from Bacillary White Diarrhoea when they arrived; they have only themselves to blame the chicks were badly packed when dispatched. I can tell you of one case where considerably over 1,000 chicks were lost from chill caused by their being sent to their destination in cardboard boxes without any packing. In their own interests as well as that of their customers, vendors should take ordinary care in the packing of chicks sent by rail. This carelessness has been the cause of extreme dissatisfaction this season, and has caused many a breeder's reputation to be badly hurt.

Chicks should be taken from the incubator and placed in a brooder with a temperature of 90 degrees. They should not be unnecessarily disturbed for the first 48 hours. Heavy losses are incurred by using chick feeds which contain seeds most difficult of digestion, such as millet, dani, split peas, lentils and canary seed; these make very expensive mixtures, and all of them are more difficult to digest than the grain we give the adult fowl, which is surely not common sense. A good and cheap mixture easily digested is one part finely cracked wheat, two split groats, and two of Uveco or any of the flaked foods which are easily broken small enough for the purpose. Over-feeding generally takes place at the "fluffy little darling" stage, that is from the first to the fourteenth day; as you know, the chick wants but very little food for the first six days, as it partially subsists on the yolk which it has absorbed into the abdomen just before leaving the shell, and this supplements the supplied food. Even during the next week or two its needs are not great; it is after this that the great danger of under-feeding begins, and I can assure you this is a very great danger and the cause of heavy losses on our commercial egg farms. Of course, I don't mean it causes a high mortality, but it means a large number of under-developed pullets, which means poor production during the winter months. I can assure you there are astonishing numbers to be seen on some of the commercial egg farms. Overcrowding usually takes place after the third week, and is mainly due to the failure of the novice to note the rate of growth; even on some of the large farms there is a vast deal of overcrowding going on, much could be done to avoid this by providing suitable perches and encouraging the chicks to perch early. Occasionally this may result in crooked breast bones, but that is to be preferred to weak lungs—acquired characteristics are not transmissible. The fixed brooder house has added greatly to the dangers of overcrowding, for I am alluding to the overcrowding of land as well as houses. In the large brooder houses there is always danger of it. In large broods of 4—500 there

ways huddling, and with such a large number of chicks in a mass there can never be an adequate supply of oxygen which is so necessary for healthy growth.

Reference to doctoring chicks, of course, brings us to disease, and it is probably due to the failure to recognise the more dangerous diseases that so many heavy losses are incurred. Now take the case of Bacillary White Diarrhoea. Healthy chicks are not susceptible to this disease after the fourth day, those that sicken after that must have taken the bacillus into their system before that age. If the symptoms exhibit themselves the first thing to do is to kill any sickly chicks and burn them, disinfect the brooders, drinking vessels, and feeding troughs, place them in such a position that they cannot be fouled, because infection is through the droppings, remove the whole lot to fresh ground, and this performance must be repeated until the disease is stamped out; removal to fresh ground is imperative, with the fixed brooder houses this is not possible, and we are obliged to resort to internal disinfectants in the drinking water; the best I believe to be the active principal in garlic, but there is always a danger in the use of internal disinfectants that we shall rear chicks which have had the disease and which will act as carriers, and we shall have a recurrence another season. All our treatment must be on preventive lines. We cannot cure a chick which has suffered from this disease, although we may save its life. It is probable that not 5 per cent. of the chicks hatched inherit this disease, the remainder get it by contagion and are often rendered more susceptible by chill or even by bad incubation. As I stated before, healthy chicks are not susceptible after the first four days. Most of us recognise the symptoms, the whitish brown discharge from the vent often so slight as to be hardly discernible, the inclination to huddle, the short back and drooping wings, and the generally dazed look, but it should be noted that most of these symptoms are equally applicable to chicks which have suffered from chill. The most drastic methods are necessary to stamp it out, and it is the height of folly to attempt to cure sick chicks.

One of the most frequent causes of diarrhoea is the feeding of foods of too starchy a nature. I recollect going to a farm where for the first week or two the chicks were fed entirely on broken wheat; now wheat is an excellent food, and I am by no means condemning it, but it is very starchy and has a slightly toxic effect; the starch will cause constipation, and diarrhoea invariably follows. The general treatment is to give boiled rice, but this is adding fuel to the fire, as rice is nearly all starch. It is very necessary when treating disease to find out the cause, the boiled rice would have been excellent had the diarrhoea been caused by an overheated brooder or some digestive disturbance, but in this case plenty of fresh green food, some broad bran and a mild dose of Epsom salts would have been better. Leg-weakness almost invariably results if green food is not supplied after the sixth day. Gapes cause serious losses on some farms. There is another case where treatment is ineffectual unless the chicks are removed to fresh ground.

## BREEDING.

Now to turn to breeding. I am not going to say much on this as it is a big subject, but it is too important a one to be altogether neglected. You know there has been some scare about the loss of stamina in our most popular breeds. I am not going to deny that it is so, because that would be wrong; the stamina of some of our most popular breeds leaves very much to be desired, if our present methods are not altered it will ultimately result in their extinction. At present I very much doubt whether some strains are an economic proposition, some well-known breeders are giving up their pure breeds and resorting to cross-breeds as a way out of the difficulty. That is what is called beating a strategic retreat to the rear. Personally, I believe it to be a retrograde step. What will be the ultimate result we cannot foresee. I believe we can stop the trouble, and, indeed, improve matters by more careful selection, and it must be continuous selection if we are to combat what is known as "the pull of the race," which is always backward. Every bird in the breeding pen should be the result of individual selection.

Now where trap-nesting is not practicable there are other methods of selection which should greatly help us to improve our flock. I visited a great many commercial egg farms in the course of a year, and am almost always astonished at the numbers of wasters that are carried. I could say on some farms as high as 30 per cent.; you think what that means in these times when the margin of profit is small; think what a loss it will mean during the next three months.

I will deal with selection first and culling after. Some people will say there is no distinction; we select when we pick out a bird which possesses certain desirable characteristics, we cull when we reject those with undesirable characteristics, or which are lacking in those which are desirable.

Now I have said we are not trap-nesting, but I will just describe a system of trap-nesting which I think might be practised on most commercial egg farms with advantage, especially as most of the hatching is done in April. Assuming they were April-hatched Leghorns, I would trap-nest them for the six weeks from October 1st. Those which laid 30 eggs and upwards during that period I would retain for cockerel breeding, those which laid 20 eggs or more I would mark for breeding stock, and those which laid 12 or more, I would run on till July when I should sell them as they would probably start to moult then. Those which laid less than 10 or had not laid at all I would sell at once. What I would particularly look for is the length of the cycle—that is to say, the number of eggs which a hen will lay without a break. The best hen is generally the one which lays four days and then misses a day, and then lays another four, and so on. These records, of course, are not the end of selection. We want to be sure of perfect stamina, fair size, and other points which are necessary for the well-being of our stock.

It may be contended that this method of selection is not possible on the commercial egg farm, but I

contend that it is, especially as it takes place in the slack months, but however that may be if we can't select we must cull in order to get rid of those wasters. It is common to cull the yearlings in the Autumn; in my opinion it would be more economical to cull at the end of the previous December, for then you can tell as well as at any time which are your wasters, and will not have to carry them so long. I have brought with me some illustrations which will perhaps give those of you who have not had a great deal of experience an idea as to how to cull.

Now you will see this system of culling is not based wholly on the Hogan system, that in itself I do not think goes far enough. Hogan almost entirely ignores head points, to which I attach great importance. We will first consider the pigmentation test, more especially at the time mentioned in December; it is some evidence of what a hen has done, and I for one don't pretend to prophesy what she is going to do under any handling system whatever, but by closely observing the loss in pigment and particularly where the pullet has lost it, you can get a very fair idea of what she has done during those months, October to December. I would not attach any importance to it after December, as any dud will lay out her pigment in the flush months of the year. Neither would I rely on it altogether, one must consider the bodily condition of the bird. You know why the loss of pigment is an indication of a good layer, the yellow pigment accompanies the fat in the body, and a good layer draws heavily on her body fat when she is accumulating yolks, 64 per cent. of the dry matter of the yolk being fat. But a diseased hen would also lose fat and consequently pigment. The pigment fades first from the skin, then the eye ring, then the beak, then the shanks, last of all from the toes. It is easier to grade your birds in December than at any time of year, but as I am to tell you something of the handling test I will refer to it later.

One other thing I might tell you, that the shanks themselves, apart from pigment, are a pretty fair indication of a good layer. If you find them flat and hollow in a healthy bird you will generally find she is a good layer. In a poor layer they are round and full. It is simply a case of the withdrawal of fat by heavy production. I would as soon apply this test as go fiddling around pelvic bones; if I get fine shanks I shall get fine pelvises. I am laying myself open to criticism when I say that the sum of all Hogan's system is the disposition of fat. We shall realise one day how closely the Hogan system is allied to Nutrition, not only as regards bodily condition, but also the frame of the bird, plumage, and texture, even the length of the beak.

#### FEEDING.

I am not going to say much about feeding failures. I would like to say how much the success of feeding depends on observation. It is not altogether the question of a balanced ration, a ration ceases to be balanced when it does not meet the immediate requirements of the birds, and you must remember that these vary considerably at different seasons. I think the best method is to have a basal ration which

can be adjusted as circumstances require. This is easily done, take this as an example: 3 lbs. bran, 4 middlings, 1 each maize germ meal, Sussex ground oats and fish meal. Now, assuming your birds are a little on the light side, or at the end of May you find the eggs are becoming small, or at any time the laying is intermittent, this is where we get underfeeding; all you need do is to omit one pound of bran. If on the contrary you think the birds are on the heavy side add another pound of bran. If you want variety, you can replace the germ meal with pea meal, or the ground oats with barley meal or biscuit dust, the fish meal with meat meal. In the moulting season you can add  $\frac{1}{2}$  lb. of crushed linseed if desirable. Above all, see that the birds have plenty of scratching exercise, for this helps in the better assimilation of food. Always remember the food cannot be perfectly assimilated if the birds are frightened and nervous.

Wet mashers are too often fed in a sloppy condition, and although I readily agree that cooked vegetables are a valuable and economic food, they can be overdone, as they carry so much water; this causes the digestive juices to become dilute and the tissues soft and flabby. I have known chicks to feather very badly from this cause, and bad hatching results when the breeding stock gets too much cooked vegetable. There is the individual who is always listening to someone else, he meets Jones in the street and tells him that his fowls are laying 100 per cent. on somebody's mash, and he rushes off and gets it, a few days after he meets Smith with a similar yarn, and presto he has the secret and another change is made, and so he continues. I suffer a good deal from this sort of individual. I don't mind whose system he follows, there are more roads than one to Rome, although some of them are rather circuitous; have a system and stick to it, it may need modifying, but drastic alterations do no good.

Remember that intermittent laying is often caused by underfeeding, and that pullets are often late in starting to lay from the same cause. It is difficult to overfeed the growing chick or the laying hen.

I have not said much about housing, and there is not much time to do so. We have yet much to learn on the subject of ventilation, and there is no doubt that badly ventilated houses are a fruitful cause of roup. We talked a great deal of open-fronted houses a few years ago, now I think the tendency is to have too much glass in front. There should always be back ventilation, but this is often impossible because the perches are too near the roof, and the birds would be in a direct draught, and if there is no back ventilation they are roosting in a pocket of bad air. This might be prevented if there was a false roof carried from the back over the birds' heads. I would not use a house over 6 ft. deep without this if it dropped to 4 ft. 6 in. at back. Frequently the birds are in a direct draught when on the perches, this can always be tested with a lighted candle.

One word as to the importance of isolating purchased stock for at least a week before placing with your own birds, and I have done. I can trace at



east, three serious outbreaks of roup to imported stock, cockerels which were mated the day after their arrival, and one really disastrous outbreak to a bird which had become infected at a utility show, and was placed with the flock immediately on its return. This is a simple precaution which is often neglected.

These are only a few of the many causes of failure in poultry keeping. I might talk of lack of experience, insufficient capital, bad methods of buying and marketing, and many other things, but time will not permit. I would only add that it seems a very strange thing to me that so many poultry keepers who have been engaged in the work for years should still have to rush to an expert every time they are in a difficulty. I hope I shall hurt nobody's feelings when I say that I am often asked most elementary questions by men whose years at the work should make them unnecessary.

The above paper was read at a meeting of the Bournemouth Branch of the S.P.B.A., held on Wednesday, October 11th.—(Ed.).

## HOW I ABANDONED WET MASH FEEDING.

### With Some Suggestions for Making up Dry Mash

By Lt.-Col. F. W. HARDY.

This article is chiefly for the small poultry-keeper.

There are two classes of wet mash feeders. (1) Those whose object it is to utilise household scraps, and thus reduce the cost of feeding. Except in special circumstances, such as institutions, etc., this is confined to individuals keeping a small number of fowls only. Such birds are perhaps more often than not, kept intensively. (2) Those poultry farmers keeping large numbers of birds, to whom household scraps would be as a mere drop in the ocean, but who give wet mash because they consider it more suitable. Mr. Toovey and the Black Lake Poultry Farm are advocates of this method, but I believe the majority of large poultry farmers adopt the dry mash system. I belonged to Class 1. I used to think it a pity that so much food should find its way every week to somebody's pig, when it might be turned to good use in producing eggs, so the scraps were handed to me every morning, carefully chopped up, put into a large saucepan, and taken back to the kitchen. Here everything depended on the cook.

Sometimes they were just right, more often she wanted all the fire for the house, and they were only half done. Occasionally the bottom of the saucepan was burnt out. About 4 p.m. the mash was made. Of course, I had to do this myself.

The art of making wet mash is not learnt in a day, and if handed over to someone else, is pretty sure to be bungled.

This was rather a tie, as it does not do to vary the time of feeding; indeed, nothing puts hens more out of their stride than irregular hours. After the birds had been feeding for twenty minutes, the troughs had to be taken away. It was difficult to judge the exact amount

that would be consumed, so there was often some over. Of course, this was wasted. Then the troughs had to be scrubbed, as moist food soon decomposes.

Well, I confess I got very tired of this. Fortunately, a friend gave me a copy of "Eggs," and I read about dry mash, then I began to think of what household scraps really consisted—or should consist where domestic economy is practised. (1) Tea-leaves, on which pigs appear to do all right, but which are, of course, quite useless for fowls. (2) Bacon rind. Too fattening except for table fowls. (3) Fish scraps. Unsuitable, owing to sharp spicules of bones which are liable to injure the birds. (4) Potatoe peelings and potatoe scraps. Rather fattening. (5) Cooked vegetables. Vitamine C destroyed, whilst A. and in a lesser degree B., are liable to damage if the heating be prolonged, as when the saucepan is left simmering for some time. Valuable salts are often strained away. (6) Bread scraps. Perhaps the most important of all. These, however, can be utilised in other ways. (A.) As bread and milk for chicks or ailing fowls—when the latter are worth treating—or (B.) To make friend with one's birds. Nothing tames the wild Ancona better than letting her peck at a piece of bread held in the hand. (7) Bones of soup meat. Not much use. I was forced to the conclusion that bread and vegetables were the principal scraps of any value, and that it was much better to give the vegetables raw than cooked, and thus preserve intact their vitamins and mineral salts. So I burned my boats in the shape of wooden troughs, and commenced D.M. feeding. On the latter system there are two methods. (1) The concentrated mash, with hoppers open for a limited portion of the day only. (2) The bulky mash, with hoppers open all day—in winter at any rate. I much prefer the latter, especially for intensively kept birds. It affords them occupation and interest for a great part of the day, varied by pecking at green vegetables, swedes or mangolds, visits to the water-fountain and grit hoppers, and scratching for grain. This helps to divert their attention from such pastimes as feather and egg eating. There is no doubt that recently opinion has swung round very much in favour of (2). On this system they cannot well overeat themselves, or get too fat, provided the grain ration is strictly limited, and well buried in the scratching litter. Of course, the wet mash feeder has several objections to dry mash. (1) That in cooked mash the Cellulose envelope of the starch-grains, etc., is burst, and that it is, therefore, more digestible. (2) That there is "visible" and (3) "invisible" waste. (1) is more apparent than real, and applies chiefly to pea and bean meal. This can be avoided by using Maize-Gluten in their stead. (2) Results mainly from faulty construction of D.M. hoppers, allowing the birds to hook out the food, and is often more prevalent in expensive appliances than in those of simpler construction. (3) This, hitherto, has been the most difficult to prevent, and arises from the dustiness of dry mash. It takes place, both in mixing and during feeding, and has been the last stronghold of the wet-mash advocate, when driven from his previous positions. However, quite accidentally I have found a cure. Having decided to give my birds cod liver oil—which is virtually a strong solution of Vitamine A.—I proceeded to incorporate it in the dry mash, the proportion employed

being one teaspoonful per lb. The following is the composition of the latter:—

Bran	...	...	...	1 lb.
Middlings	...	...	...	2 lbs.
Alfalfa Meal	...	...	...	$\frac{1}{2}$ lb.
S. G. Oats	...	...	...	$\frac{1}{2}$ lb.
Maize Gluten	...	...	...	$\frac{1}{2}$ lb.
Fish Meal	...	...	...	$\frac{1}{2}$ lb.
Dried Yeast	...	...	...	$\frac{1}{2}$ lb.
5 lbs.				

Regular readers of "Eggs" will recognise the pen of Mr. Tom Newman in this.

When mixing by hand, this is a convenient quantity to manipulate at one time. A basin sixteen inches in diameter and about six inches deep, enables one to do this thoroughly, without spilling. Five teaspoonfuls of cod liver oil—best measured in a small medicine glass—are first mixed with the bran, and then well rubbed up with hands until all small lumps have disappeared. This takes about two minutes. Add the Alfalfa, the most dusty ingredient, S. G. O. being a good second. Almost immediately the dust is laid by the oily bran. The other constituents are then added, and thoroughly mixed. Little or no dust arises either in the mixing or when the hens are subsequently feeding. I reckon that the oil should more than save its cost from this cause alone. At this time of year it should also materially assist the moulting stock in feathering. I usually make up about a fortnight's supply, choosing, where possible, a wet day, and store it in a large tea chest.

I now come to chick feeding. It used to be said that wet mash was essential if one wanted to get size and growth in chicks. This is not so now. Chicks do extremely well on dry mash, in which the animal protein consists either of dried, separated, or butter milk. There is one outstanding advantage in this system, namely, the almost complete absence of diarrhoea, and consequent lessened mortality.

To make up dry mash quickly, it is essential to have a spring balance with the pan on the top. The pan sold with the balance is usually too small, but a larger one can be bought for a few pence, and there is an adjusting screw to bring the needle to the zero point. It is much cheaper and more satisfactory to make one's own mash. The quality of the ingredients can be seen at a glance. The above mash costs me at the present time about 13s. a cwt. My total food bill works out at 2½d. per bird per week, buying the ingredients in cwt. lots. I do not think it can be done much cheaper on the wet mash system, and there is no comparison between the two as regards trouble and time involved, whilst the egg yield and general health of the birds are very satisfactory.

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

## SOME USEFUL MASHES.

### Dry Mash for Layers.

Parts by Weight.

Parts.	Parts.
1. Bran ... .. 2	3. Bran ... .. 2
Clover ... .. 1	Malt Culms ... .. 1
Middlings ... .. 4	Maize Meal ... .. 1
Maize Gluten Feed ... 1	Cocoa Nut Cake Meal ... 2
S.G. Oats ... .. 1	Middlings ... .. 3
Fish or Meat Meal ... 1	Fish or Meat Meal... 1
2. Bran ... .. 2	4. Bran ... .. 2
Clover ... .. 1	Clover ... .. 1
Middlings ... .. 4	Middlings ... .. 4
Pea or Bean Meal ... 1	Soya Bean Meal ... .. 1
Barley Meal ... .. 1	Maize Meal ... .. 1
Fish or Meat Meal ... 1	Fish or Meat Meal... 1

### Wet Mash.—By Measure.

Parts.	Parts.
1. Potatoes ... .. 3	3. Uveco ... .. 3
Bran ... .. 1	Bran ... .. 1
Malt Culms ... .. 2	Middlings ... .. 4
Maize Meal ... .. 1	Sussex Ground Oats... 1
Middlings ... .. 4	Pea Meal ... .. 1
Fish or Meat Meal ... 1	Fish or Meat Meal... 1
2. Cooked Cabbage ... 4	4. Biscuit Meal ... .. 2
Potatoes ... .. 2	Pea Meal ... .. 1
Sussex Ground Oats ... 1	S. G. Oats ... .. 1
Middlings ... .. 4	Middlings ... .. 3
Fish or Meat Meal ... 1	Clover ... .. 1
	Fish or Meat Meal... 1

### For Breeders.

The following mash, as being rich in Vitamines and Mineral Salts, is recommended for Breeding Stock. Parts are by weight:—

Parts.	Parts.
1. Broad Wheat Bran ... 3	Dried Yeast ... .. $\frac{1}{2}$
Middlings ... .. 4	Fish Meal impregnated with Cod Liver Oil 1
Maize Germ Meal ... 2	Alfalfa Meal ... .. 1
Sussex Ground Oats ... 1	
Crushed Linseed ... .. $\frac{1}{2}$	

Simpler mash for Breeding Stock are:—

Parts.	Parts.
2. Bran ... .. 3	3. Bran ... .. 2
Middlings ... .. 4	Alfalfa ... .. 1
Maize Germ Meal ... 1	Middlings ... .. 4
Sussex Ground Oats ... 1	Maize Germ ... .. 1
Fish or Meat Meal ... 1	Sussex Ground Oats ... 1
	Dried Yeast ... .. $\frac{1}{2}$
	Fish or Meat Meal ... $\frac{1}{2}$

### Wet.

Parts.	Parts.
4. Clover ... .. 1	Sussex Ground Oats 1
Bran ... .. 1	Dried Yeast ... .. $\frac{1}{2}$
Middlings ... .. 3	Fish Meal ... .. $\frac{1}{2}$

Note.—The Dry Mash is always before the birds. The grain which should not exceed 1½ ozs. per day should be fed in the litter, where possible, Dried Buttermilk or Dried Separated Milk should always be fed in place of Fish or Meat Meal. Fish Meal impregnated with Cod Liver Oil is always preferable to ordinary Fish Meal. Alfalfa Meal can always replace Clover Meal, where green food is available neither are necessary. They can be replaced by an equal quantity of Bran.

## THE VALUE OF THE COCKEREL.

By MISS BAYNE.

The value of the cockerels in our breeding pens depends upon a large number of factors, all of them most important, and many of them vital to our success as stock raisers; indeed, the good cockerel is one of our greatest assets, as the poor one may be a source of loss and disappointment. How necessary it is, therefore, that we may take the very utmost care in our choice of a cockerel.

Strain is, of course, most important, yet too great stress may be laid on strain alone, for there are good and poor in all strains of laying stock. What we really want to make sure is that we have all the necessary factors in the bird chosen, and most of us are doing our utmost to solve the problem at the present time.

Rearing, good rearing, rather, is essential to the cockerel, for it is far easier to rear good pullets than fine cockerels. Stock birds require to be well fed, on plain fare, and should be given the largest available space, as they need more room than pullets, and the old teaching to keep them as far as possible out of sight, or sound of the hens, is excellent.

They want grading, for it is far better not to have birds of all ages running together; the big ones bully the little ones, take the major portion of the food, and so prevent those younger from making their normal growth.

Culling must be continued right through, for not all those with a good pedigree will be fit for stock. Few people want a cockerel without a pedigree, and it is best to take out all birds bred from the lower record ones. If early hatched they fetch quite a good price as table chicken, and they can be fed more cheaply, i.e., given more grain than those reserved for stock.

If you have been selecting on right lines your stock, so far as outward appearance goes, will leave little to be desired, so that health and vigour may be your main objectives, and these are paramount, for without them all our work is of little avail.

It is unfortunately true that very highly fecund hens tend to produce delicate chickens, so that you may have to sacrifice more than you like of what should be your best birds. This statement must be qualified, for it is true, and yet not true!

A hen must possess exceptional vigour and wonderful powers of assimilation, to lay a large number of eggs, but if she persists in laying right through her second winter, it is hardly probable that all her chicks will rear well. Are we then well advised not to hatch from such eggs? By no means, for the rule is not without exceptions, and you stand to lose some good stock by so doing. You must run the risk, and give the chicks the best chance you can, by rearing them under hens, culling any that don't do well.

I am quite an advocate for rearing from year old pullets that have put up good winter records, and the resultant stock quite justifies me, for, as a rule, it is tip top. It does not appear to be bad reasoning to say

that a bird which has laid, say, 100 eggs, is less likely to be exhausted than one which has laid 250, and I have usually found my January and February hatched pullets give me excellent results when they are a year old. In this way one gets as many chicks as possible from one's best birds, and I should have no hesitation in using the cockerels for stock.

If the very highly fecund hen can be kept in good condition until her third and fourth year, she will not be laying so heavily, and her eggs will hatch the best of chicks—my belief is that she is at her worst in this respect in her second year.

If one is selecting for Utility qualities only, the task is robbed of some of its difficulties, but when one wishes to pay due regard to breed characteristics, colour, etc., it becomes harder to obtain the ideal all round; all the more credit, therefore, to those who endeavour to produce a bird as nearly perfect as possible, even to the trained eye.

The White Wyandotte, being a sport from the silver variety, is a much more difficult proposition; no doubt for the popularity of the breed. One hears sometimes that it lacks stamina, but on a recent visit to Lancashire, I was much struck by the vigour and beauty of these pretty creatures on some of the well-known farms.

The White Wyandotte, being a sport from a male breed, is a much more difficult proposition; no doubt the small egg comes from its Hamburg ancestors, the single comb and feathered legs from the Cochins, but all these defects, or throw backs, can be eliminated by the careful breeder, who is content to strive continually after an ideal, and he will have his reward.

I believe the Rhode Island Red is most difficult to breed true to colour, but when we consider its extreme hardness and good all-round qualities, it is well worth while taking considerable pains to attain beauty of colouring, in addition. All these things are difficult, but most things that are worth having must be paid for in continual striving, and how wonderfully satisfying is even a measure of success.

We have left until the last the most important factor in the utility cockerel, and that is its inheritance of fecundity, and here its outward appearance and vigour can only be a partial guide, for its pedigree is everything.

Oscar Smart, in his book, "The Inheritance of Fecundity in Fowls," indicates that the cockerel inherits its high fecundity from its dam, but tells us that L2 hens do not necessarily throw all L2 sons.

Major Hurst apparently has found that high fecundity is not a sex-lined character at all, but that a combination of the right factors, on either side, is dominant.

In practice I find that an L2 cockerel gives only good layers, whether it is mated to hens laying 250 eggs, or only 180 in their first year, so that here we have something of the utmost importance from the stamina point of view, for these lower record hens give us most excellent, easily reared chicks in their first and second year, which result in fine pullets, able to stand the strain of heavy laying. What mating could be better from a profit point of view?

How to produce this L2 cockerel, and be able to rely upon its progeny inheriting the L2 factor, that is

the crux of the whole business! Is there any comparatively simple method of selection which will supply us with cockerels reliable in this respect? I fancy there is, and humbly believe an improvement may soon be apparent if the following plan is tried.

We have been advised to test all cockerels for the L2 factor, but this is only practicable to a limited extent, though pedigree breeding is practised, and the result from several pens are quite easy to follow. Your cockerels, in every case, will be birds bred from your best highly fecund hens. They will have been well reared, drastically culled, and never suffered from a day's illness in their lives.

You toe-punch, or otherwise mark the chicks from each pen, and the following year mate the cockerels giving you best results to your highest record hens, and, I believe, you will have cause to rejoice.

This means that your best pens will be headed by tested cockerels; your finest layers will be individually pedigreed, and you will keep and propagate the stock from those which give you best results, so improving your whole flock at the fountain head.

It is madness to mate fine layers to an untried and untested bird, with no pedigree of the right kind behind it, and in nine times out of ten will result in disappointment, for we ought to be as certain as we possibly can, humanely speaking, that we have all the essential factors to high fecundity in the birds we mate together to produce our stock cockerels.

We know what our hens have done, but we can only get the best out of them when they are suitably mated, and the one sure way is to have tested L2 birds on both sides, especially when we are mating to produce cockerels which will give us only good layers, however they are mated.

I am afraid that trap-nested stock, bred to a standard for a great number of years, has occupied my mind while writing these few remarks, but they apply equally in the case of stock, not trap-nested, where the flock average is the only guide, and cockerels are bought in year by year.

On the whole, I believe, egg farmers are wonderfully well served in this respect, and it is to the interest of the pedigree breeder to supply only birds which are likely to do him credit.

Wherever possible it is a wise policy for even the egg farmer to trap a few of his best birds from which to breed his own stock cockerels, and one which will save him money in the long run; but here again he is dependent on the pedigree breeder for a stock bird to head his pen, and a really reliable bird is necessary, nay, essential.

Some birds are extremely valuable, in so much as success depends largely upon them, and it is unlikely that they will ever be produced in large numbers, but we should spare no effort in the attempt.

There is no doubt whatever that our poultry can be made more profitable, and it behoves us to leave no stone unturned in this direction, for there is no earthly reason why this branch of farming should not be better than any other. Our business is to see that it does!

## ELEMENTARY ANATOMY.

By J. C. CLAYTON, M.R.C.S.

Whenever I read the post-mortem reports in "Eggs" or any articles touching on disease, I always wonder whether the general public, who read them, are as ignorant with regard to the position and uses of the various organs belonging to the fowl, as they are with regard to the position and uses of the human organs. If so, it is high time that some slight helping hand be given.

To those who are enlightened on the subject I would say, that I quite realise that the diagrams I have drawn are not absolutely anatomically accurate, but have been drawn so for demonstration purposes, and also that I have endeavoured to avoid all controversial subjects as far as possible.

To all I would say that in touching upon the contents of the Mouth, Chest and Abdomen, which is all that I propose to do, I shall be dealing with a mere fracture of the whole of the anatomy of the fowl, but it certainly will be that fraction which has the greatest interest for the Poultry Farmer.

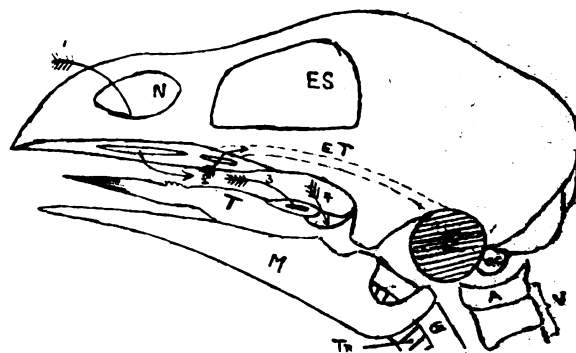


Fig. 1.

N., nostril; E.S., eye socket; E.T., Eustachian tube; T., tongue; M., mandible (lower jaw); E., ear drum; O.O., occipital condyle; Tr., trachea (windpipe); O.E., oesophagus (gullet); V., vertebrae; A., atlas (1st vertebra).

Look at Fig. 1. It is a picture of the bony skull of a fowl looked at from the side. But although it is chiefly bony there are certain soft parts showing also.

I want to follow the course both of air and food as far as the diagram will permit.

Let us take the air first, and remembering that when in health a fowl breaths through its nose, the air will enter the nostril (N.), and, as the arrow 1 shows, enters the mouth through a hole in its roof. Some of that air passes back again through another hole in the roof of the mouth and along a bony tube, Eustachian Tube (E.T.), to the inner side of the ear drum (E.) (arrow 2), and by this means the external pressure of the atmosphere on the outside of the drum is counteracted, and thereby hearing is made acute.

The rest of the air is drawn down a slit at the back of the tongue (T.) (arrow 3) into the trachea or

windpipe (Tr.). Please look at the tongue and you will notice that the tip is shaded. This is the horny portion, and a short distance back just below the arrow head 1 is a slight irregularity. This represents some projections which assist the bird to taste.

Now let us follow the food. That enters by the point of the beak and is carried back over the taste projections, but in the act of swallowing that slit through which the air passed to the windpipe is closed tight by a ring of muscle. The food passes over it and is shot into the opening of the gullet (arrow 4), and is carried down the oesophagus or gullet (OE.).

The only other points of interest are firstly a small knob of bone behind the ear drum known as the occipital condyle (O.C.), because a condyle is a knob, and that portion of bone at the back of the skull is the occiput. Then there is the first vertebra of the three illustrated, the Atlas (A.). Now the interest is that it is the dislocation of the occipital condyle and the Atlas which causes the death of the bird when its neck is wrung.

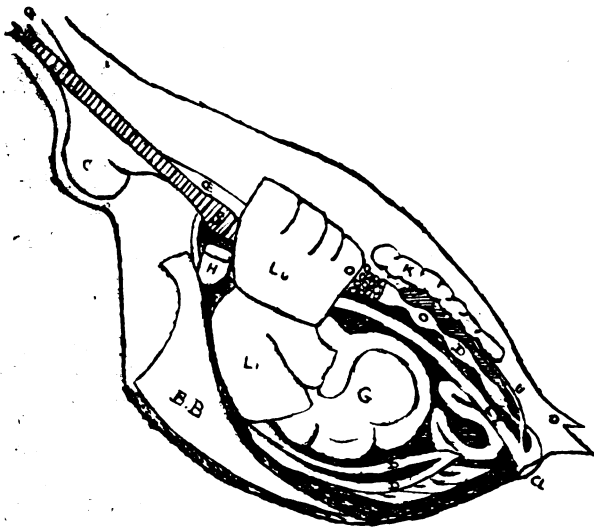


Fig. 2.

Tr., trachea (windpipe); O.E., oesophagus (gullet); C., crop; S., syrinx; H., heart; B.B., breast bone; Lu., lung; Li., liver; G., gizzard; D.D., duodenum (first part of small intestine); O.D., oviduct; L.I., large intestine; O., ovary; K., kidney; U., ureter; C.L., cloaca (common vent).

Now look at Fig. 2. It represents the bird having been split in two, right down the backbone and the left half removed. There to the left is the continuation of the windpipe (Tr.). Follow it down to the lung (Lu.) and note the swelling (S.) just before reaching the lung. This is the Syrinx. It is by some folds of tissue inside this swelling that the bird can make its bird noises, crowing and cackling. This represents the larynx in the human being.

Now the fresh air, charged with oxygen, passes through the syrinx into two smaller tubes, and these split up into still smaller and smaller tubes until it reaches little microscopical cells, and here the blood extracts the oxygen and gives back the carbonic acid gas.

But in the bird the air has not finished its job here because all around the lungs are large air sacs, and these connect up with other sacs all over the body and these again are in actual direct connection with the bones, and here let us leave them as they are, much too complicated to be illustrated, and besides we shall enter controversial grounds.

Just as we can see the windpipe to the left of the diagram so we can see the gullet or oesophagus (OE.).

As you will see, it is at first behind and to the left of the windpipe, but crosses over to the right to swell out into the crop where the food gets mixed with juices which begin to aid the process of digestion.

The food slowly passes out of this pouch and travelling down the gullet again behind the lungs pierces the diaphragm, which is a sheet of tissue dividing the contents of the chest from the abdomen in the bird very thin and undeveloped, and so enters the abdominal cavity. And here we will leave it for the time being.

Before going further, I want you to look at Fig. 2 again and see that it gives you the structures contained in the abdomen as they are met from before, backwards.

Right in the front is the breast bone as a protection. Note the distance which is shown between the pointed extremity of this bone and the cloaca (CL.). Its here that the good hen has her necessary capacity, where all her intestines are.

Next, behind the breastbone, we find the liver (Li.) and the duodenum (DD.) or 1st part of the small intestine. And, as a matter of fact, we shall see later the gizzard (G.) is as much in evidence as the other two.

Behind the gizzard are coils of intestines ending in the short, large intestine (L.I.).

Behind the large intestine is the ovary (O.) in the position as you will find it in the chick and running down from it is a diagrammatic oviduct (OD.), which enters the cloaca (CL.) posteriorly to the large intestine.

In the male bird this position of the oviduct is taken by the testes and deferent ducts as will be shown later.

Finally, right against the spinal column is found the kidney (K.) with its duct, the ureter (U.), entering the large intestine on each side.

A chest organ which is lettered is the heart (H.), but I do not intend dealing with the circulatory system in this article. By a series of five diagrams I propose dealing with the abdominal organs from before backwards as one would if one was carrying out a post-mortem examination.

Looking at Fig. 3 we come across all the organs which we saw directly behind the breastbone in Fig. 2 with an addition of two others, but now we are looking at them from the front aspect, and in this diagram only the abdominal organs are illustrated with the exception of a very shortened gullet and crop which were purposely shortened to save



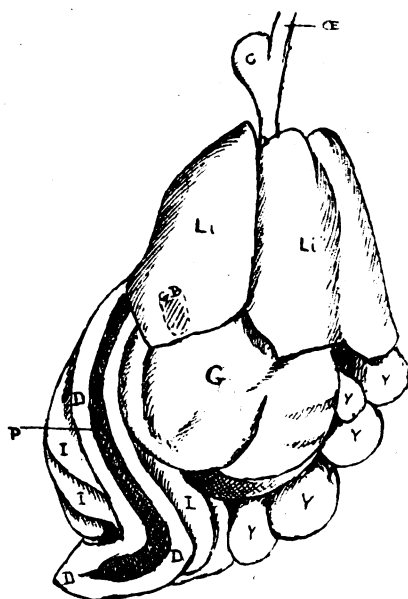


Fig. 3.

O.E., oesophagus; C., crop; Li., liver (right and left lobes); G.B., gall bladder (indication of position); G., gizzard; D., duodenum; I., intestines; P., pancreas (sweetbread); Y., yolk sac.

space and were merely put in to assist in explaining the following diagram (Fig. 4).

This diagram as you see shows above the two lobes of the liver (Li.) right and left, and at the lower margin of the right lobe a shaded portion (G.B.) indicating the position of the gall bladder which is hidden just under the liver.

Just below the liver and very much in evidence is the gizzard (G.), having on its right a very obvious U-shaped piece of intestine, the Duodenum (D.). This is the only portion of the fowl's small intestine which has a distinctive name, and it is a most important portion as we shall see when studying the next diagram. Please note that lying in between the limbs of the "U" of this piece of bowel is an organ marked (P.), the pancreas or sweetbread.

To the left of the Gizzard are a number of partially developed yolk sacs (Y.). You will nearly always find them on the left side of a hen in lay, and it might be here stated that the reason probably is because although the chick starts off with the commencement of two ovaries only the left one actually develops.

The other organs in this diagram are coils of intestines (I.), which are directly continuous with the duodenum (D.).

Now let us cut off the liver and the yolk sacs and have a look at Fig. 4.

Now in Fig. 2 we traced our food out of the crop through the lower part of the gullet, where it passed behind the lung and liver and was lost. We now see in looking at Fig. 4 that the food passes into a swelling just above the gizzard the glandular stomach (G.S.) in contra-distinction to the muscular stomach or gizzard.

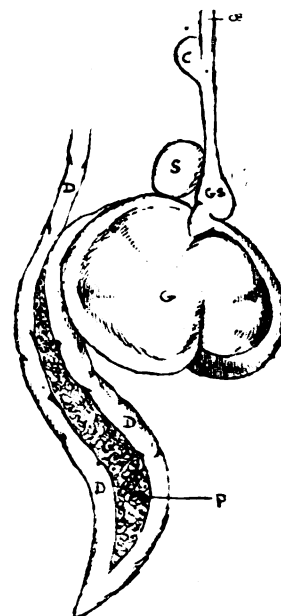


Fig. 4.

O.E., oesophagus; C., crop; S., spleen; G.S., glandular stomach; G., gizzard (or muscular stomach); D., duodenum; P., pancreas (sweetbread).

In the glandular stomach the food is acted upon by gastric juices which are poured out from microscopic tubes called "glands," which are contained in the lining walls. From here the food passes on into the gizzard, which is a bag of immensely strong muscular structure, the muscle being practically always on the work and thereby rubbing together its contents, whether it be mash, grain or pieces of stone. The crushed and thoroughly mixed contents of the gizzard passes out into the duodenum (D.) and it is in this piece of bowel that it receives the "bile" from the liver and the digestive juices from the pancreas. I do not intend dealing with the action of these juices beyond stating that it is the bile which gives the green and yellow colour to the droppings.

As the food passes along the rest of the intestines the blood vessels in their lining select and pick out all those elements which are necessary for the development of all the different parts of the body, leaving behind all the debris which is ultimately mixed with the urine from the kidneys through the tube called the Ureter (U., Fig. 2) before being evacuated at the cloaca.

Before dismissing this diagram I must point out the Spleen (S.), a small round organ lying in the angle formed by the glandular and muscular stomachs. This gland has to deal with the formation of the blood corpuscles.

Just before dismissing the question of the bowel and digestion have a look at Fig. 5, which shows a very interesting bowel formation to be met with in birds—namely, the two "caeca" or blind guts (one is a "caecum" and two are "caeca," the word "caecum" meaning "blind").

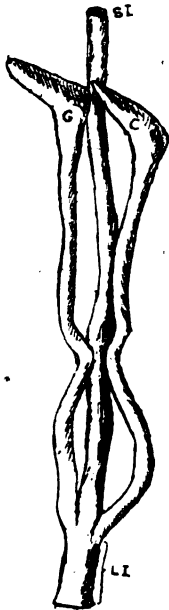


Fig. 5.

S.I., small intestine; C., caecum; L.I., large intestine.

These pieces of blind guts commence just at the point where the small intestine merges into the large and pass upwards along the last portion of the small intestine for some inches. They increase the area of the absorbing surface of the bowel, and the remnant of one of them is found in the human being in the shape of that now popular organ known as the "Appendix."

You will note that what is known as the large intestine is not because of its length, but it is because of the larger circumference and difference of its structure. It is very short as compared with the rest of the bowel, only being a few inches in length.

Removing the structures shown in Figs. 4 and 5 behind them we come upon the organs of generation differing according to the sex.

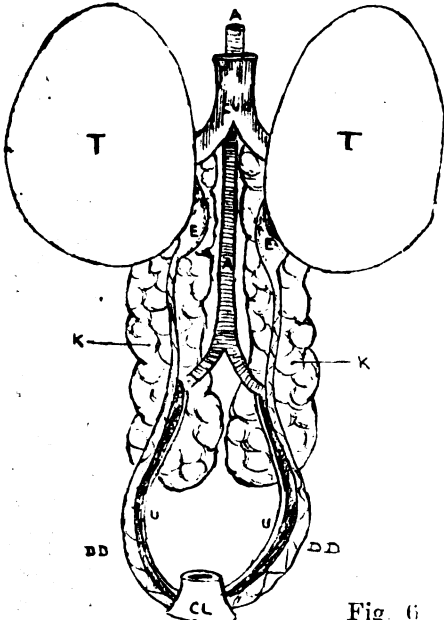


Fig. 6

A., aorta; C.V.C., caudal vena cava; T., testis; K., kidney; E., epididymis; D.D., deferent duct; U., ureter; C., cloaca.

Fig. 6 shows the male organs of generation. The two Testes above which are the factories of the male "germ." The fluid containing the germs passes into the sac called the epididymis (E.), and from there passes along the tube known as the "deferent duct" (viz.: "the duct which carried from"). For all intents and purposes the fluid passes into the cloaca.

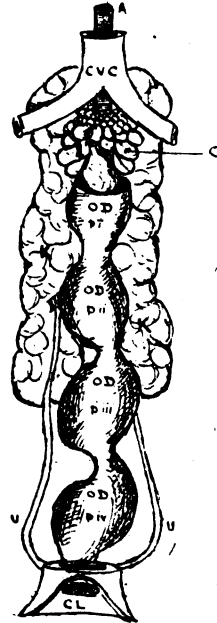


Fig. 7.

A., aorta; C.V.C., caudal vena cava; O., ovary; O.D., oviduct; K., kidney; U., ureter; C.L., cloaca.

Fig. 7—I must apologise for Fig. 7. It is very diagrammatic, but in no other way could I explain what I want to.

First of all, be it known that, however earlier it may be, anyhow, when a female bird comes to maturity, it already contains in its ovary all the eggs which are possible for it to develop in its lifetime. At this stage some are still almost microscopical whereas others are larger; in fact, there is a bunch of sacs of different sizes up to one which is so big that it has to drop off and fall into the mouth of the oviduct (O.D.). But please don't think that the oviduct is such a definite tube with definite pouches as I have drawn it, and that if you opened a pullet you would see anything like it.

The oviduct is actually made up of folds upon folds of a very delicate lining membrane to the abdomen, known as the peritoneum. It is a very tortuous and complicated tube, and in various portions of it special formations of the egg take place.

You will note the mature yolk sac falling into the mouth of the first pouch (pl.) of the oviduct, and it is high up here in the duct that fertilisation takes place.

In the next two pouches (p2) and (43) the two layers of albumen are smeared round the yolk sac. In the last pouch (p4) the egg is shelled before pass-

ing out into the cloaca. You will notice that the front of the cloaca has been cut away, showing the opening of the oviduct in its posterior wall.

Referring once more to Fig. 6, the two lobulated kidneys (K.) can be seen lying posteriorly to the organs of generation. The main artery of the body, the Aorta (A.), can be noted dividing to supply the two kidneys. Also above can be seen the caudal vena cava (CVC.), the main vein which collects all the blood from the lower extremities.

At practically the same point as the two divisions of the aorta enter the kidneys the two ureters (U.) pass out of the kidney to carry the urine to the large intestine, where after mixing with the large bowel contents it is evacuated with it. The kidneys are the last abdominal structures to be met with posteriorly, and they lay right against the spinal column, which may account for the importance of having ones fowlhouse so ventilated that a direct cold draught does not play on to the birds' backs.

(Copy and publication rights reserved.)

## NUTRITION AND REPRODUCTION.

By J. BROOKSBANK.

Mr. Chairman, Ladies, and Gentlemen,—

The subject of my paper this evening is one which has received very little consideration by writers on Poultry matters, and yet it is of the first importance. Mr. Newman is about the only writer I know, who, in current Poultry Literature, has dealt with the problem of Nutrition in relation to production and reproduction.

When one does see articles on Poultry feeding one generally finds that it deals either with the feeding of chicks or feeding for egg production, and, after all, one cannot blame Editors for devoting a relatively large amount of their space to these important phases of the feeding question, because they must give readers that information for which they call, and, I venture to predict that for every one question asked as to how one should feed one's birds in order to get vigorous chicks from the eggs which they produce, there are a thousand such queries as—How shall I feed my chicks? How shall I feed my hens to make them lay? Or what mash do you recommend for fattening surplus cockerels?

Now, Mr. Chairman, I have been given full freedom in the choice of my subject, so I propose to say a few words about the feeding of Breeding Stock with the object of getting eggs from which one may expect to obtain strong liveable chicks. Therefore, let us first of all consider the egg itself.

This consists of Yolk, Albumen, and Shell. There are also the vesicular aeris and membranes, all of which play an important part in the processes of incubation, but with these latter we are not concerned in the present paper.

The yolk is composed of water 52 per cent., fat and oils 45 per cent., albuminoids, colouring matter, 1 per cent., and mineral matter 1 per cent. The white or albumen consists of water 86 per cent., dry albumen

12 per cent., sugar and fat  $1\frac{1}{2}$  per cent., and mineral matter  $\frac{1}{2}$  per cent. It is of the utmost importance, in relation to incubation, of the last-named constituent of the egg to which I would like to direct your attention.

Here the questions may be asked: What are Mineral Salts and What are their particular functions? The answer to the first question is: A salt is a compound, formed when hydrogen in an acid is replaced, either entirely or partly, by a metal.

Of these salts there are a great many varieties. Common salt is one of them, and one with which we are all familiar. It is a compound of Sodium and Chlorine, and in its own way it is very important as it prompts the interchange of fluids between tissue cells and the fluids surrounding those cells. The importance of Mineral Salts cannot possibly be over-estimated although they are found in very minute quantities in the egg, yet without them there could be no structure, no chick or even life itself.

Let us then discuss briefly a few of these important substances, and their value in incubation.

First, there are the Lime Salts, particularly Calcium Phosphate—a combination of lime and phosphoric acid—which is essential for the formation of bone, and which acts as a general agent for promoting growth and nutrition. During the progress of embryonic development the chick obtains the lime necessary for building up its framework from the shell of the egg. Keeping this fact in mind we shall realise how essential it is that eggs with good shells only should be used for hatching. Thin shelled eggs do not contain sufficient lime for the needs of the chick, and the use of such eggs for the purpose of incubation is one of the prenatal causes of leg weakness in chicks, and is also the cause of some dead-in-shell. We can do much to avoid thin-shelled eggs by keeping before our breeding stock at all times a good supply of limestone grit or oyster shell. Some hens, however, always lay eggs with thin shells; such birds are useless as breeders.

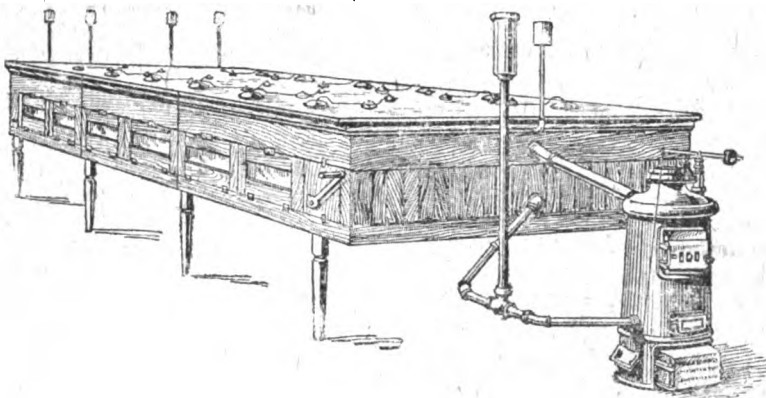
Now let us turn our attention to Iron. It is probably generally known that every time we inhale air we take in a fresh supply of oxygen, but if this oxygen remained in the lungs for a short time, and was then exhaled it would be of very little benefit to us, but, floating in our blood, there are minute particles of iron, and these seize the oxygen and carry it along in the blood stream to wherever it is required throughout our bodies. A similar process goes on within the egg during incubation. The Iron in the blood seizes the oxygen which enters the egg through the pores of the shell and distributes it throughout the body of the developing chick. The intake of oxygen is necessary for the combustion of organic foods, and during the process of combination heat is generated and energy produced, also carbonic acid gas and acids are created. These latter are waste products, and must be carried out of the system, and for this purpose the sodium salts are requisitioned. Sodium Carb neutralises the surplus acids producing carbon di-oxide, and sodium phosphate gathers up this poisonous gas, as well as that created by the combustion of foodstuffs, carries it along in the blood stream to the lungs, where it is thrown off by exhalation. In the case of the embryo chicks this CO<sub>2</sub> is discharged through the pores of the shell. Thus it will be seen how essential to the proper

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

**HORACE W. STEPHENS,**  
**GLEVUM INCUBATOR WORKS, GLOUCESTER.**

**More and Bigger Eggs from your Poultry.**  
*can be obtained by feeding your birds on a natural and complete food.*

# PŪLBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritive ingredients in proper proportions, constituting the most economical Food invented.

*From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.*

**3 lb. Bag, 1/-, 7 lb. Bag, 2/-.**

Made by the Manufacturers of  
**MELOX and MELOX MARVELS,**  
the **PERFECT DOG FOODS.**

**W. G. CLARKE & SONS, Ltd.,**  
LIMEHOUSE, LONDON, E.



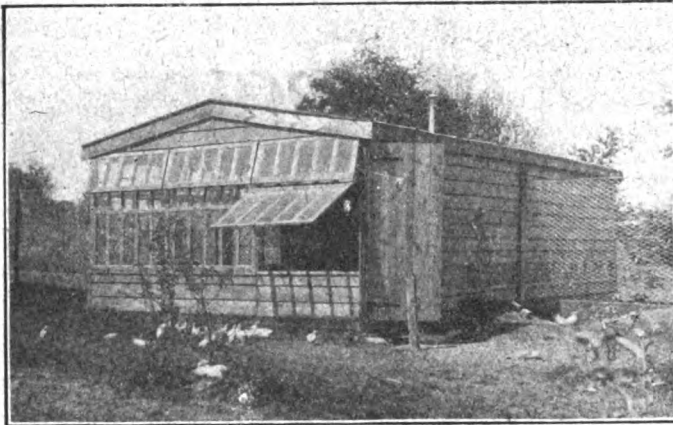
**AFTER PŪLBIS.**

# EXTENSIBLE UNIT BUILDINGS.

*Solve the vexed problem of maximum lighting without draft risk*

**In INCUBATOR, BROODER, LAYING and BREEDING HOUSES.**

Extensible and convertible, in 5 ft. sections. Made to your own specifications and ideas if desired.



Brooder with Day and Night Nursery.

Illustration shows a typical Brooder, which can be converted to semi- or extensive laying house.

Made with  $\frac{3}{4}$  in. or 1 in. Panel board.  
 $\frac{3}{4}$  in. or 1 in. Flooring.

To any length, depth and height.

A patented sash and panel arrangement allows variable lighting for every purpose of the season.

A fully equipped model plant stocked with Bantam strains may be inspected free.

**W. H. COLT, M.S.P.B.A. M.N.U.P.S. Bethersden, Kent.**

NOTE NEW PRICES.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.	s. d.
Dried Skimmed Milk	24	0
Sussex Ground Oats	16	0
Maise Meal	11	0
Maise Gluten Feed	12	0
Pea Meal	16	0
Bean Meal	16	0
Meat Meal (Fine Ground)	22	6
Fish Meal (Best White)	23	6
Biscuit Meal (Fine)	22	6
Clover Meal	18	0
Broad Bran	12	0
Middlings (Best Fine White)	14	0
Middlings (English)	12	0
Feed Wheat (Best English)	14	0
Feed Oats (Best English)	15	0
Kibbled Maize (Sifted)	12	0
Flint Grit	5	0
Limestone Grit	5	6
Oyster Shell	8	0
Cockle Shell	6	6
Rolled Wheat (for Chicks)	15	0
Dried Yeast	20	0
Pinhead Oatmeal	26	0
Whole Oat Groats	26	0
Broken Rice	16	0
*No. 1 Chick Feed	22	0
Mash for Laying Hens	16	0

(Both the latter are Mr. Tom Newman's Recipes.  
FREE ON RAIL, HEATHFIELD or LONDON.

|| 5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION. ||

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
Britannia Mills,  
HEATHFIELD, SUSSEX.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
NETHERBY HALL, SEDGLEY,  
STAFFS.

## REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS

GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags	2 3
12lb. Bags	3 0
28lb. Bags	7 6
56lb. Bags	12 0

PRICES PER CWT.

	s. d.
1 cwt.	25 0
3 cwt.	24 0
6 cwt.	23 0

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
56, HIGH STREET,  
LEWES, SUSSEX.





### As used by

Jimmy Fairservice, Tom Barron, Miss Harrison Bell, Tom Wade, Arthur Stephenson, W. H. Cook, Ltd., Bostock Smith, Rev. Charles Birkett, R. H. Berney, M.A., Simon Hunter, J. E. Hughes, E. A. Taylor, Mrs. A. J. Pain, Mr. C. Brookes Wratten, Miss F. Smith, Arthur Snowden, and the other big men in poultry. "Take my tip, and get yours now," says Jimmy Fairservice.

# Get your Incubators **NOW.**

To-day is the time to get your next season's Incubators—if you have decided that you must have Hearson's.

Poultry-keepers everywhere know that the factory was working overtime before Christmas last season, and that their orders were turned away.

The demand for the Hearson is enormous. This super machine lasts from twenty-five to thirty-five years; hatches every fertile egg every time; its oil consumption is only half that of other machines; the chicks are stronger and more lively.

"Woodwork has been badly treated and is rotting," says a user who has had his machine thirty-two years; "but the egg chamber and the thermosatic capsule are as perfect as ever."

Later on we may not be able to accept your order at all. We cannot make enough machines. Whatever the wages we offer, skilled craftsmen who are good enough for the Hearson factory are not to be found.

Will you place your order to-day?

**REDUCED PRICES.** Your model reaches you complete with thermometers, lamp wick, funnels and every accessory, ready for you to start profitable incubation at once. The following prices are *carriage paid*: 60-egg size, £10 0s. 0d. 120-egg size, £15 15s.; 240-egg size, £22 0s. 0d.; 600-egg size (on application). The number of Hearson Type Incubators at present in use is more than the total of all other kinds combined. "I have decided to scrap my 1,500-egg machines, and replace them with eight 100-egg Hearson's," writes the Reverend Charles Birkett. "I shall save 700 eggs at a time, and be sure of the hatches succeeding." Write for your free copy of the Hearson Book to-day.

### Ask for this Wonderful **FREE BOOK**

"The 100 Per Cent Hatch" book printed throughout by the costly and beautiful photogravure process, contains 31 illustrations and a detailed description of how to hatch and rear sturdy, vigorous chicks; 10 exclusive photographs taken by Charles Hearson himself, showing the embryo actually in the egg shell in different stages, and brilliantly written matter. Write for your copy at once. Address your letter now to:—

**Spratt's Patent, Ltd.**  
24, FENCHURCH STREET,  
LONDON, E.C.3.



**Ducks**  
that  
**Pay.**

---

**Every  
Duck  
sired by  
son of  
200 egg  
Dam.**

---

**Come and  
see me  
at the  
DAIRY  
SHOW.**

---

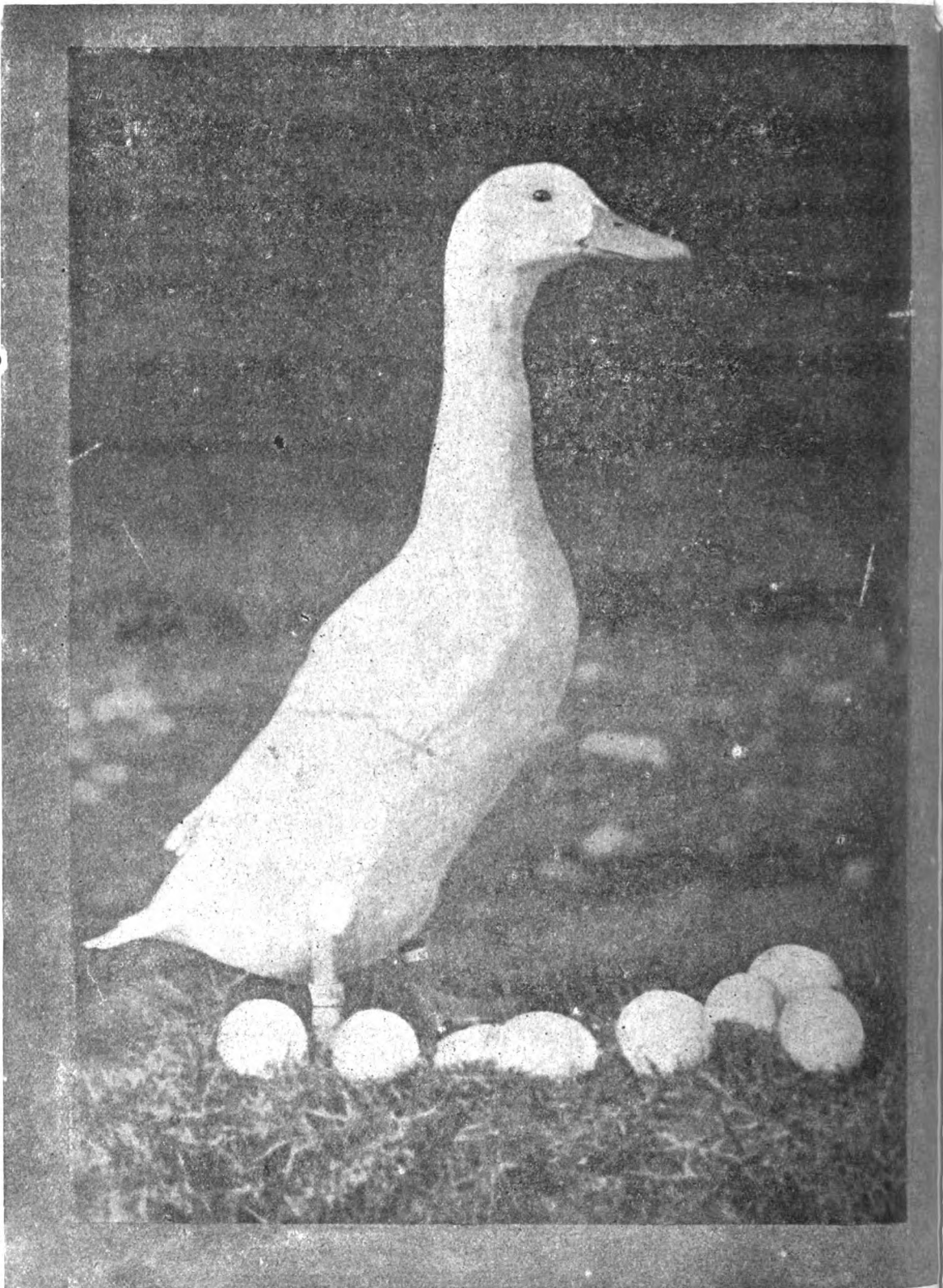
**A New  
Duck  
House.**

---

**White  
Runners  
& Khaki  
Campbells.**

---

**Drakes**  
from  
**20/-**  
each.



**Miss HARRISON BELL,**  
**SISSERWERMES FARM, WELWYN, HERTS.**

development of the growing chick in the shell are these small particles of salts, and it is important to remember that they must be in the egg when it is laid, and that the only way which the egg becomes possessed of them is by means of the food fed to the hen.

Unless eggs, when laid, contain their proper quantity of iron and sodium salts, we cannot get chicks from them. If lacking in iron, development cannot proceed to fruition for want of oxygen; and if deficient in sodium salts the chicks is poisoned before reaching maturity, and can only get rid of the large amount of carbonic acid gas produced in the egg during the process of incubation by means of its sodium phosphate.

In support of this statement I will herewith give particulars of an experiment conducted by Professor Graham, of Guelph College, Ontario. In this test a number of hens were fed on a ration consisting chiefly of meat and green food. Plenty of eggs were secured, but only 33 per cent. of them hatched. The remainder of embryos of the fertile eggs died at various stages of the incubating period, most of them about the 18th or 19th day.

Meat meal is, no doubt, a good egg producer, but it is almost devoid of mineral salts, there being only four ounces of sodium in a ton of it and no iron. Fish is much better in this respect, there being 382 ounces of sodium and three ounces of iron in each ton. I should strongly recommend the latter in preference to the former for supplying nitrogenous matter to the breeding stock.

In addition to lime, sodium and iron, some of the functions of which I have described, I will just refer in passing to phosphate of iron which acts as a protection against inflammatory affections. Potassium phosphate and magnesium phosphate are both necessary for the formation of nerve substance. Sodium sulphate is found in the bile, the chief salt where affections of the liver are concerned. To sodium chloride and its uses I have already referred. It will be recognised from the foregoing how essential mineral salts are for the building up of the body for the supply of oxygen to enable the organic food substances to be utilised, and for the removal of waste products from the system. In addition, many salts act as weapons by means of which microbes are kept at bay, and without the assistance of mineral salts, we, ourselves, as well as our poultry, should be absolutely helpless against the attacks of disease germs.

At this point permit me to refer to the 1922 hatching and rearing season, which is said to have been the worst experienced in the whole history of the Poultry Industry of this country. The bad hatching results were caused, in my opinion, first by a deficiency of mineral salts in the eggs, and, secondly, by the prevalence of dry and cold east and north-easterly winds, which remained practically throughout the whole season. Experienced operators overcame the latter difficulty by supplying extra moisture in both artificial and natural incubation, and guarding against a too free circulation of air through their machines. The first-named cause was a more serious matter, as it was irremediable after the season had commenced, and only those poultrymen who had foreseen the probability of this lack of mineral salts in the eggs, and who had taken early steps to supply the deficiency, were able to report satisfactory hatches of strong chicks.

The very dry summer and autumn of last year was in some degree responsible for the bad hatching results of last spring. In some parts of the country there was scarcely a blade of grass to be found, and certainly none that our hens would eat. The birds kept on laying through it all, and robbing their own bodies of minerals in order to supply their eggs with them. Consequently during the winter resting period breeding hens were not able to replace fully this loss, and by the time they were again in full lay, and their eggs were being used for hatching, they were having to draw upon their bodies to supply the eggs with salts, and as this cannot last very long, soon the eggs themselves were deficient in these vital constituents, with the results already noted. The prevalence of disease among chicks, and consequent high mortality were due, doubtless, to the same cause. Many of those which did struggle through to exclusion lacked the power of resistance to disease, hence the appalling losses.

Now, Mr. Chairman, if we wish to be successful as incubators it is essential that our raw material must be right, and even from the point of incubation there are eggs and eggs; some that are suitable for our purpose, and some that are not. If we wish to obtain healthy chicks we must use healthy eggs, i.e., eggs which are complete in every detail of their construction, and which contain every element necessary to the production of robust life.

How are these healthy eggs to be obtained? Let us see if we can find an answer to this query.

Doubtless you will all know that all animal life is developed from eggs, and that, in most animals, the whole process of development is effected in the body of a mother, whereas in the case of birds the process is completed after the egg has left the body. In the former case everything that is necessary to the production of a living entity can be supplied as and when required by the mother. In the latter the egg, when laid, must contain all the essentials for producing a healthy chick; nothing can be supplied (with the exception of heat and oxygen) to the embryo after the egg is laid. It is well known that if a potential mother does not receive sufficient nourishment during the period of gestation then the young life within her will suffer, and with hens, unless we give the food containing all the elements necessary to the production of healthy offspring, we have no right to expect to get vigorous chicks from their eggs.

The necessary supply of protein, fats and carbohydrates presents very little difficulty, but it is quite a different matter when we come to the mineral salts. Until recently it has been assumed that, as most foods contain these salts, they would be present in the egg in sufficient quantities for all needs, and, doubtless this is quite true in the case of the ordinary farmyard hen, which lays only from 60 to 80 eggs per year. She has free range, and gathers a large amount of her food in the fields; she has before her all the time that she is producing her eggs, a choice selection of succulent young plant life, all of which are particularly rich in mineral salts. Therefore, one seldom hears of bad hatches or weakly chicks from farm stock, and very rarely does one hear of an outbreak of Bacillary White Diarrhoea among them.

But those of us who are engaged in the Poultry Industry for a livelihood must have hens that will lay

from 150 to 250 eggs in their pullet year; neither can we afford free range for our fowls. Birds that are bred to lay a large number of eggs must be given sufficient food in order to enable them to do themselves justice; therefore, we feed a highly concentrated and narrow ration, and it is just here where our troubles begin. In order to give sufficient protein to enable a hen to lay a large number of eggs one is often advised to feed meat meal, but, as already stated, meat meal is almost devoid of mineral salts. Fish meal is much better, as it contains a reasonable amount of lime, sodium and iron, and it is certainly a better concentrate than meat meal for breeding stock. Dried yeast is another valuable nitrogenous food substance that is well supplied with mineral salts, and has the further advantage of possessing tonic properties. Dried skimmed milk or drier butter milk are both valuable foods of high protein content and possessing other nutritious qualities as well as being rich in potassium, sodium, lime and iron. While judicious blending of the three foods here named we can feed as narrow a ration as is desirable, even for a high fecund hen, and at the same time give her a liberal supply of mineral salts, and, if fish meal impregnated with cod liver oil is used, the combination will be satisfactory also in its vitamin content. Now, let us examine some of the other meals which we shall require to complete our mash. First we will take bran. This is a cheap and sound bulk food, which is well found as regards its mineral content. It is particularly rich in iron, magnesium, potassium and phosphoric acid.

Next come middlings or thirds. This is a better food than bran, if one were to take into consideration only the protein, fat and carbohydrates content. It is not, however, as rich in minerals, although, even in this respect, it is a valuable food.

Now we come to Sussex Ground Oats, which give us, in addition to organic substances, a good supply of iron and sodium as well as a reasonable quantity of other necessary salts.

Then we have maize meal, which gives us fat and carbohydrates, but owing to its deficiency in mineral salt we do not use it. For our breeders we use maize germ meal, which, I think, is far superior to the full meal. Lastly, there is linseed meal, rich in all minerals and valuable, because of its protein and oil content. There are other meals which could be used, but those I have named are reasonable in price, even to obtain of good nutritive value, and well supplied with salts. Blended in correct proportions a mash can be compounded of these meals that will be well balanced using that term in its best and highest sense.

For those who keep birds intensively or in yards where the birds are unable to help themselves to green food, I would recommend the use of Alfalfa Meal, which is valuable because of its lime, salts and iron. In fact, we always use it in our own mashes, even though our birds have access to grass. Now let us give a little attention to grain ration. First we will deal with wheat, which is often referred to as a natural food, but as grown at the present time, it is really an artificial product. Man, in his need for food, has found it necessary and profitable from a monetary point of view, to increase—by cultivation—the flour

yield of any given bulk of the grain, and the bigger he can grow the grain the better the miller will like it. But we are considering this product, not as food for man, but as food for poultry, and for our purpose the smaller the grain the better.

In support of this statement I will compare the analysis of large and small foods. Taking one ton of each sample we find that they both contain about the same amount of water, say about 300 lbs. The small give 30lbs. more protein and 3lbs. more fat than the large. This does not matter very much, still even in these respects the former is better than the latter, but it is in their respective mineral contents where the small scores heavily, it contains 24 ounces more potassium, three ounces more sodium, three ounces more lime, seven ounces more magnesium, and 24 ounces more phosphoric acid than is found in the large and it has equal quantities of iron, chlorine and silica so that you will see that in buying plump samples of wheat for our poultry we are not getting 9d. for 4d. In fact, we are actually paying something extra for minus quantities.

It will be noted that in dealing with mineral salts I gave quantities in ounces, and to some the difference in mineral content of the two samples of wheat may appear insignificant, but this is not the case, as it must be remembered that the importance of mineral salts cannot be measured by their weight alone. In a fowl weighing 5lbs. there is less than an ounce of them, while in an egg, apart from the shell, we shall find one fortieth of an ounce. It is just because they are present in such minute quantities that their importance is so easily overlooked. When small wheat can be obtained it is both cheaper and better than the large for poultry food, in addition to which it provides more scratching exercise for the hens.

We have provided our breeding stock with their breakfast and their wet or dry mash, so there remains only their last feed, and for this purpose we always use good plump white oats, which are well supplied with essential salts and fats, as well as a reasonable amount of digestible protein and carbohydrates.

Maize is another grain which is largely fed to poultry, but we seldom use it, and certainly never for our breeding stock, because it is deficient in lime, sodium, and iron. Lastly, we come to the supply of green food, and as there is very little of this to be found, even in grass runs, in the early months of the year when eggs are wanted for hatching out early chicks, it will be necessary for us to supply the essential to the bird, and here again, although most plants are plentifully supplied with mineral salts, we can give a little assistance by selecting such vegetables as we know to be rich in lime, sodium, and iron. Lime salts can be given by using Alfalfa, but if too much of this be used the mash will become too bulky for winter use.

Savoy cabbage, the top of carrots, swedes, mangolds, and onions are all well supplied with organised mineral salts, and all of them are particularly rich in lime, sodium, and iron, as well as other minerals, and, when obtainable, are very valuable as food for breeding stock at any time of the year, but more especially during winter.

In conclusion, I suggest that you supply your hens with grains, meals and greens which are well supplied

with mineral salts, then they will enjoy better health generally, and they will be better able to resist disease. They will give you more eggs, and this without laying at the expense of their own bodies. Their eggs will be more valuable as human food, and, what is more important from an incubating point of view, you will get more chicks from your eggs, and the chicks will be easier to rear. Over and above all this you will add at least one year to the economic life of your fowls.

(The above paper was read at a conference of the Wirrall and Liverpool branches of the S.P.B.A. at Liverpool).

## Foods and Feeding.

By TOM NEWMAN.

"Nux Vom," writing from Belgium, says:—I note that you say in "Eggs," August 9th, that you are convinced that hard grain feeding is both wasteful and uneconomical, and I for one should like to try and dispense with it. But, WHAT WOULD YOU DO FOR EXERCISE, even when birds had a comparatively large run at their disposal? I take it that exercise is essential in some form or other?

Question 2. How and to what extent would you suggest adding carbohydrates to your mash 'in a much more digestible form?' I think if you omitted grain you would alter your mash slightly? I would like to make the experiment under your guidance, and would willingly let you know the results.

Question 3. Would you, therefore, please outline for me a mash—making use, if possible, of the following ingredients, giving parts by weight: Bran, midds., S.G. oats, clover meal, maize germ, cod liver oil, fish meal, dried ossified yeast, marmite, and dried milk of some kind. (A) For breeding pens. (B) Layers. (C) Chicks. Birds with exceptionally large runs.

In answer to this, I want to repeat what I said a month or two ago in answer to another correspondent as to not feeding grain. "There is no reason why we should not supply the energy producing foods, i.e., the starch, in a more easily assimilable form than as grain; while the actual digestion of food is taking place, it is probable that the appetite is satisfied, but the body is not nourished until the food is digested, and the more easily the food is digested the more will be digested, which is a matter of importance to the heavy layer, which digests its food far more rapidly than the poor layer. Grain undoubtedly lasts longer in the crop than mash, and years ago we were, and I believe still are, advised to give a heavy feed of grain at night; but I have tested the result of feeding mash at night and grain as first feed, and vice versa. There was no difference in the health of the birds, nor in egg production. Our object is to nourish the body and not merely satisfy the appetite."

"Nux Vom's" first question is as to exercise. THIS IS ESSENTIAL. We can overcome that difficulty by giving a small scratch feed of FINELY kibbled maize in the litter, directly the birds come from the perch in the morning and one at mid-day, say one

handful between every 6 or 8 birds. It must be finely kibbled, and there must be plenty of litter.

Now we come to the mashes. The first is for Breeders, and the parts are all by weight:

1 Bran, 1 Clover, 2 Sussex Ground Oats, 1 Maize Germ, 1 Dried Milk,  $\frac{1}{2}$  Ossified Dried Yeast, 3 Middlings. We might substitute Cod Liver Oil Impregnated Fish Meal for Dried Milk, but  $\frac{1}{4}$  lb. will be enough. We cannot vary this mash much for layers, but we may bring the fish meal up to 1 lb. if we use it, or the dried milk to  $1\frac{1}{2}$  lbs., and add another pounds of middlings.

For chicks: 6 Bran, 2 Sussex, 2 Maize Germ, 6 Midds.,  $\frac{1}{2}$  Yeast,  $1\frac{1}{2}$  Dried Milk or 1 Cod Liver Oil Impregnated Fish Meal. The parts are again by weight. Exercise is as important as for adults. But I suggest that in place of finely kibbled maize they should be given a small quantity of split groats and broken Uveco. As to Marmite, that should be used at the rate of 1 oz. to every 7 lbs. of mash, or 1 oz. to the gallon of drinking water.

I was at Wellingham House P.F. a day or two ago, and saw the five hens which were exhibited at the Harper-Adams' Conference. It will be remembered that they laid at 16 weeks old, and have had no grain feed since they were hatched. They are all in perfect health, one is moulting, but the others are laying well and good-sized eggs too. They are now  $7\frac{1}{2}$  months old. The heaviest bird, weighed while I was there, weighed 8 lbs., she was not in the least fat and was in full lay. Now here we have a question of Early Maturity, which, as Miss Bayne says, we have been taught to avoid like the plague, but, as I have pointed out before, this is entirely different from the precocious pullet, the result of selective breeding. Neither is it the result of a forcing mash. It has simply responded to good feeding. A mash with a high Vitamine content protein of the best quality, and a high ash content. When Dr. Plimmer projected this mash, he took all these things into consideration, all were of equal importance, a good Vitamine content would not have compensated for inferior protein, and had the ash content been poor in either quality or quantity, the birds could never have been reared. These facts will give us some idea as to what is meant by a balanced ration. I commend to my readers, "Vitamines and the Choice of Food," by Dr. and Mrs. Plimmer, the publishers are Longmans, Green and Co., the price 7s. 6d. I hope to refer to it again in a later issue.

### POTATOES.

Many readers are asking how they can use potatoes, which are a very cheap food this year. They need careful feeding, as they are very deficient in protein, and although rich in potassium salts are poorly off as regards the lime salts. A correspondent asks whether they should be peeled or not before feeding. No, they should be merely scrubbed and cooked in their jackets; much of their value will be lost if they are not cooked in their skins. A good and cheap mash could be made with: Potatoes 3 parts, Malt Culms 2, Bran 2, Middlings 4, Fish Meal 1. Cabbage could be used in place of bran if desired, but the mash should be fed in a crumbly condition and not sloppy.



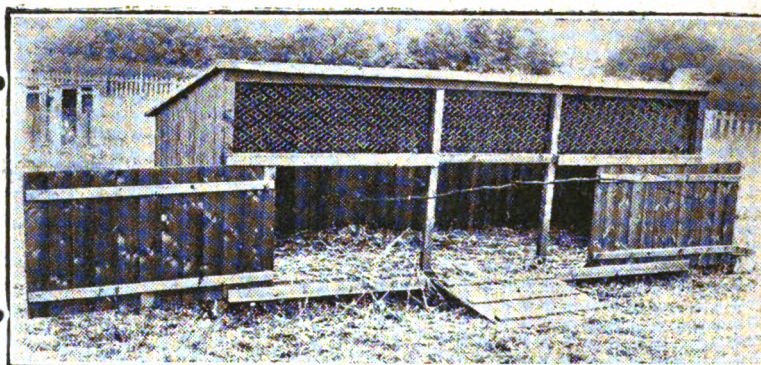
## Indian Runner and Khaki-Campbell Ducks.

By A. HAROLD PAINE—Thirty-Fourth Article

The youngsters hatched out in the Spring, if not already in lay, will be on the point of commencing, and the question of housing is one that will now occupy the mind of the duck-keeper. In our 1922 Annual Register I dealt briefly with this matter, and illustrated two types of houses. One of these was very simply constructed of 2in. quartering for the framework, covered with  $\frac{3}{4}$ in. or  $\frac{1}{2}$ in. match boardings. The dimensions were 9ft. long, 5ft. wide, 3ft. 6in. at front and 2ft. 6in. at back, with a 1in. boarded floor. Such a house is quite easy to make, and serves its purpose very well. It takes 12 to 15 birds comfortably.

The larger house which I illustrated was 20ft. long, 8ft. wide, and 8ft. high, for about 70 birds. Instead of match-boarding the smaller of these houses may well be covered with one of the Bitumen felts, of which several makes are now to be obtained, one particular advantage being that the covering cost with this in a thickness of 2-ply or 3-ply works out at about

round. For very wet weather a simple adjustable canvas shutter is attached. The door in centre is hinged at foot, and also forms the step, and being of a good width, it obviates any danger to the birds when leaving or entering. This is a point which should be noticed, as until the ducks are thoroughly accustomed to the person looking after them they may be very nervous, and at "closing" time, if they rush in, a broken limb may result. One of the great difficulties obtaining with the old type of duck house is that of collecting the eggs. Ducks generally lay in the darkest corner of the house, and that corner happens to be the least accessible, so in this house of my own design the sides of the front slide out entirely, and the eggs can be collected in as many seconds as it used to take minutes. Further, the whole house can be cleaned out and relittered very quickly and very easily. An additional advantage is that the house can be left completely open all day long, so that the litter dries very quickly, and the house can never get foul. By a slight addition and adjustment these houses can be used for rearing practically from hatching time, and the slides when out, by adjusting them to an inverted V shape, make an excellent shelter for the growing stock. It will be seen that ample ventilation is pro-



one-half of that of wood. This felt is very durable, easily put on, and is absolutely water-proof. Some of the makers send out with each roll a sufficient quantity of a kind of rubber cement which renders the joints quite impervious to driving rain. Another advantage of the felt house is that when completed it is of a light weight, and two people can easily move it when necessary, so that such a house need not be made sectional. Felt, however, cannot be expected to have anything like the life of wood, and whilst there are many duck houses of various types on the market, I have never yet found one that could be considered by any means perfect. After various experiments on my own plant I eventually designed one which seems to fulfil every requirement; and it is illustrated on this page. It is constructed of full  $\frac{3}{4}$  tongued and grooved boards on 2 x 2 quartering, and is built in sections, and can, therefore, be easily taken down and re-erected. The floor is at least six inches off the ground, and is wired underneath to give protection against vermin. Some of the houses I first made were felted under the floor, but as that prevents any air passing through, I am not now using it. The roof is covered with heavy Bitumen felt and projects slightly all

vided the whole length of the house. This is most necessary, as ducks seem to require much more air than hens.

The house illustrated is 12ft. long, 4ft. wide, 4ft. 6in. high in front, and 3ft. 6in. high at back, giving accommodation for about twenty birds. It is treated both inside and out with one of the best preservatives, and with care and attention it should have a life of at least twenty years.

So much for housing. Many breeders do not use any houses at all, even in the depth of winter. The birds sleep out in the open, and probably if there is complete immunity from foxes and other vermin, that may be the best plan. Last week end I saw a nice flock of young ducks which left the warm brooder at about a month old, and since then they had never been housed, and a healthier and better grown lot one could not wish to find. During the day they are on free range, and at feeding time they return to the "fold." This is about four yards square, 6ft. wire netting being used, and as a protection against the wind hop netting of a width of about 2ft. is fixed to the wire netting all round. The ducks return from their wanderings in the late afternoon, and are fed in this pen, the gate of

which is then closed up for the night. A simpler pen can be made of wattled sheep hurdles. These are 6ft. long and 3ft. high, and combine shelter and fence in one. They are both inexpensive and durable, and easily put up. If foxes are about, however, I think a wire fence of a minimum height of 6ft. is absolutely necessary, and this should be thoroughly well pegged down to the ground.

Here is another method, however, for those who do not wish to go to very much expense. It is that adopted by Captain Heseltine, whose Buff Orpingtons took first place of that breed in the laying test just concluded at Bentley. I have been corresponding with him on the question of housing, and in one of his letters he says: "My houses are mostly small since they are for trapping and dividing off into breeding pens. My flock, however, has no home or shelter, merely a compound of four lengths of corrugated iron 2ft. high, nailed to short pegs in the ground, the whole compound being covered with 3in. mesh netting to keep crows and crows away from the eggs. The netting lifts up (being attached at one end to a bar) for egg collecting and cleaning. I have 1in. mesh netting over the floor to keep out rats. I move the whole compound—it takes about half-an-hour—periodically." This seems to be a very simple method for "non-housers," and as satisfactory, perhaps, as it is simple.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### TWENTIETH LIST.

Carried Forward ... £761 14s. 4d.

	s.	d.
V. Pooley ... ..	2	6
Mrs. E. W. Shilcock ... ..	2	6
Wm. Lee ... ..	2	0
B. White (Discount) ... ..	4	6
H. Hooton (Discount) ... ..	2	3
R. W. Cason ... ..	2	6
Fred Hurst ... ..	2	6
John McNeill ... ..	10	0
C. F. Hauxwell ... ..	1	0
Miss M. Hardstaff ... ..	2	6
C. H. Stanley ... ..	5	0
W. J. Baker ... ..	5	0
John G. Goosey ... ..	20	0
Lord Dudley Gordon ... ..	40	0
Mrs. Arnott Collington (Discount) ... ..	2	7
Capt. R. Dashwood ... ..	84	0
Richard Sale ... ..	2	0
Viscountess Encombe ... ..	42	0
H. North ... ..	2	0
Jas. E. Mitchell ... ..	2	6
Major J. W. Hillyard ... ..	2	6
H. J. Hayward ... ..	4	0
T. J. Mann ... ..	5	0
W. Jones ... ..	4	7
Lester-Spurgeon's Pen W. Leghorns ... ..	100	0
G. W. Lyall ... ..	5	0
C. T. Johnson ... ..	2	6

	s.	d.
David Moore ... ..	5	0
W. Atkinson ... ..	10	0
A. Scott ... ..	5	0
Wm. Barnes ... ..	10	0
T. S. B. and Sam Fish ... ..	5	0
Mrs. G. Armstrong ... ..	2	6
Geo. R. Field ... ..	2	0
Mrs. N. E. Elliott ... ..	2	0
Frank Scholes ... ..	2	6
T. J. Dixon ... ..	2	6
J. George ... ..	5	0
J. Rew ... ..	5	0
Miss E. Stevens ... ..	1	0
A. Beales ... ..	1	0
F. W. Dorling ... ..	5	0
Harold Ashworth ... ..	2	0
J. A. Shaw ... ..	10	0
Geo. H. Ward ... ..	2	6
H. C. Few (Discount) ... ..	2	7
D. J. Arthur Rees ... ..	5	0
Thomas Shaw Carr ... ..	7	6
J. Cox ... ..	2	0
S.P.B.A. Bournemouth Branch ... ..	228	6
Geo. M. Fraser ... ..	44	0
Mrs. E. M. Maish ... ..	3	0
Geo. W. Scott ... ..	10	0
W. E. Ker (2nd Donation) ... ..	10	0
Dr. Menzies' W.L. Hen ... ..	400	0
V. G. Newberry ... ..	2	6

Total ... .. £819 8 10

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM  
NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### BOURNEMOUTH BRANCH OF THE S.P.B.A.

A very successful meeting of the Bournemouth Branch of the S.P.B.A. was held at the Havergal Hall, Bournemouth, on Wednesday, October 11th. Major Eden presided over a good attendance. Mr. P. A. Francis, of the Ministry of Agriculture, came down on purpose to address the meeting, and in a very interesting speech he spoke of the present position of the industry and its future prospects, dwelling especially on the comparative value of the price of eggs and foodstuffs at the present time, and in pre-war days. It was very convincing, and also encouraging, for it was made plain to us that if we put our backs into it there is no fear for the future. Mr. Francis dwelt especially on the future of the table poultry industry, which would appear to be very bright, as there is little to fear from competition abroad. He then outlined the scheme for the National Poultry Institute, and congratulated the S.P.B.A. on the response that had been made to the appeal by its members. Dr. Baldwin proposed that a collection towards the fund should be made. This promptly found a seconder, and it was gratifying to us all when the Chairman announced that

the sum of £11 8s. 4d. had been given. I then read a paper on "Some Causes of Failure," which appears in this issue, and followed that by a demonstration of the handling test. After that I answered a whole lot of questions which were very interesting and pertinent. I was pleased to see our old friend, Mr. Randolph Meech, was present, and in excellent health and spirits.

The Annual General Meeting of the Branch followed. Mr. Williamson, the Hon. Sec., reported that the Branch had increased from 26 to 83 during the year. That was very satisfactory, but there was more to be done. He asked each of those present to make an effort to bring in a new member. They had had several meetings, at which lectures had been given, and these had been much appreciated. It was proposed to hold them again during the coming winter.

Dr. Baldwin was re-elected President, and, in returning thanks, he said, although he was pleased to accept the honour, he was a great believer in new blood.

The next meeting will be held at the St. Peter's Institute on November 1st, when Dr. Baldwin will give a paper.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

A. B. (Morayshire). The Clover Meal contains a fair amount of leaf and is above the average. Germ Meal should be given to the growing stock (chicks from six days old) and to breeding stock; it could be also used for fattening. Gluten Feed is better for layers.

Beginner (Bolton). Your mash could be: 1 lb Bran, 1 lb Clover, 3 lb Middlings, 1 lb Uveco, 1 lb Sussex Ground Oats, 1 lb Fish or Meat Meal. If the birds have plenty of fresh green food you can omit the Clover and add another part Midds. You can use Maize Meal in place of Uveco or Biscuit Meal.

B. P. F. You want the Crushed Linseed not the Linseed Cake Meal. Give 5 per cent. in the mash. We do not supply the charts.

L. M. (Belfast). I do not know at present where a good utility strain of Houdans can be obtained; it seems a pity that this fine all-round breed should be so neglected by utility breeders, who are rushing after many other varieties that are inferior to it. Perhaps some readers of "Eggs" may keep them.

M. A. G. (Cheltenham). For your conditions Black Leghorns would be quite good. I expect you would have to pay about 30s. each for pullets; for hens with trapped records you would pay according to the record, anything from 25s. upwards.

T. E. (Auldgrith). The sample of gluten feed is a very good one. The Ground Oats are not Sussex Ground, and I consider them dear at 22s. Feed Oat meal should be of equal value, and much cheaper. The other samples, I think, are a fair average lot, but you are paying too much for the wheat. Your feeding is quite satisfactory. I agree with you, people are far too pessimistic about the present position. It would be all right if "they would get a move on," but you see I daren't tell them so.

R. C. B. (Preston). I would not buy the cockerel. Whatever the breeder may say, if he has soft bone and his brothers and sisters have it, it is a sign of degeneration, although the pullets may be putting up good records. Remember you have to consider reproduction as well as production. (2) As you ask my advice, I would advise you not to extend. At present you are doing remarkably well, but you want a little more experience. You can now control your stock, and 500 really good birds, which you can control, are worth 750 medium ones. There is a great deal of heart-breaking work in poultry-keeping, because people will carry more birds than they can control.

A. W. (Borrowash). Give your hens equal parts Kibbled Maize and Wheat during the winter. You need not change it in the summer. Your mash is quite all right at present. Open the hoppers first thing in the morning, and let the birds have access to them all day. Can't you manage for some one to give them a feed of grain at 4 p.m. Let them have access to the mash at all times. (2) The swedes will not increase the egg output, only in so far as they keep the bird in better condition. (3) I cannot recommend things through these columns. (4) It is hardly necessary to feed laying hens by lamplight, but you get more eggs. If you do so, I think in your case it would be wise to do so. (5) I should want three-quarters of an acre to keep 200 laying pullets on the semi-intensive system. (6) Now you are asking a question when you ask "How many eggs must a fowl lay to pay you." You see I don't know what it costs you to feed, your rent, or anything else. But the average I should say would be 12 dozen eggs.

Soft Shells (Ware). There are some hens which seem, from constitutional causes, to lay a high per

tage of shell-less eggs. I cannot say whether they old transmit this peculiarity through their sons. re are various causes for hens laying these eggs. excessive attention by the male will do so; so will ht, and, needless to say, a deficiency of mineral e, or shell-forming material. But that hardly ms to be likely in the case you write of. Very mulating feeding will do it, and birds which have an excessive number of hours under artificial light will lay high percentage of shell-less eggs. It is quite possible that it is inherited, and it is highly probable, but cannot say definitely.

G. A. W. (Waltham). In such a confined run you must provide scratching exercise, and you would be much wiser under such conditions to use dry mash. Grain give finely kibbled maize, the first feed, one handful among five birds, directly they come off the perch, and the last one among two half-an-hour before they go to perch. Hang their green food up at midday. Give either No. 1 dry mash, or No. 3 wet, from the list of mashes appearing on another page. If you used a wet mash allow the birds 2½ ozs. weighed dry. The dry mashes should be before the birds all the time.

P. J. (Coventry). If the male is in a partial moult you cannot expect him to be active in the pen. I expect he will be alright later on, but the pullets are too young to be mated; it would be much wiser not to mate them till February. (2) You should gradually have brought the birds on to dry mash, any sudden change invariably upsets them for the time, particularly at this season of the year. (3) I have repeatedly stated that the grain should not exceed ½ ozs. per day; give one handful to every three birds when they come from the perch in the morning and one between two half an hour before they perch. They will soon become accustomed to dry mash feeding. (4) The best time to mate your Reds will be at the beginning of February or end of January, and the Leghorns at the end of February. With regard to the two birds which look pale and have crumpled combs, I think you will find that they are going through a partial moult.

Recruit (Charter Ley). Yes, it would be advisable to keep the April drakes away from the ducks until the breeding season; it is a very great mistake to run the males in the pens until they are well matured, it is the immature birds that are ruined, a well-matured male will not be less fertile if he runs with females the whole year round.

Enthusiast (Bradfield). There is not much wrong with your feeding, but it is a little deficient in protein; add another 2 lb. of Middlings and a ¼ lb. more Fish meal to the mash.

C. G. F. (Sals). The mash as advised to Cefn is very good laying mash. The question arises as to why are your pullets backward, it is not always a question of feeding, and if some other cause exists such as overcrowding feeding will not remedy matters. The mash given to Cefn is a dry mash, and as you have been feeding wet it will check your pullets still

more if you change suddenly to dry; use it as a wet mash, but omit one part bran.

### POST-MORTEMS.

"E. R., Eltham." Your hen died from internal haemorrhage into the liver, as a result of extensive tubercular disease of that organ. Also she had numerous large worms in her intestines.

A. Botwright. Your bird died from a "broken heart." The upper part of the heart was torn just where the large vein from the R. lung entered it, there was a large quantity of blood clot all round the heart. There did not seem to be any disease of the valves of the heart, but there must have been a weak spot in the heart wall, and something (perhaps excitement or effort) put more strain on it and caused a rupture. The bird also had congestion of lungs and kidneys, but was healthy in other respects.

L. H. Croydon. Your pullet's intestines were inflamed and very red in their whole length. The kidneys were enlarged and congested. It looked as though she had had something poisonous. Could she have got anything? I suppose you have not been giving her anything very salt, have you? Salt, except in very small quantity, causes this condition.

H. Lee. You do not say to which paper the report is to be sent. Your bird had water in the bag round the heart. She had also enlarged kidneys and a cold in the head. Her other organs were healthy. I think that she must have had a chill, and that death was caused by the pressure of the water on the heart.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, OCTOBER 13th 1922.

GRAIN AND FEEDING STUFFS.—Steady improvement is noticeable in the condition of the wheat on the markets. Supplies are fairly good, although there is a tendency among farmers who are not in immediate need of money to keep back their wheat until a more opportune moment for marketing. Prices are again firmer, milling samples now averaging slightly over 42s. per 504 lbs., an advance of 1s. on the week. Imported wheat is also dearer, No. 2 Hard Winter averaging 53s. per 496 lbs against 52s. last week. Some samples of malting barley are on the market, but the bad weather of the past season precludes any possibility of normal supplies of good malting barley. Feeding descriptions maintain their value, while oats have a distinctly firmer tendency. Imported oats are also dearer and American maize, which is in very short supply on spot, has advanced 1s. 6d. and averages 38s. 9d. per 480 lbs. Bran is in good demand and prices are firm, but middlings are rather cheaper.

MILLERS' OFFALS.—Bran (British): Bristol, £6 17s.; Hull, £5 17s.; Liverpool, £6; London, £6. Broad Bran: Hull, £7 2s.; London £7 5s. Fine Middlings (Imported): London, £9. Coarse Middlings (British): Bristol, £9; Hull, £8 12s.; Liverpool, £8 10s.; London, £8 5s. Pollards (Imported): Hull, £6 7s.; London, £6 12s. Rice Bran: Bristol, £7 15s.; Liverpool, £7 5s. MEAL.—Barley Meal: Bristol, £11; Hull, £10 15s.; London, £11. Maize Meal: Hull, £10 2s.; Liverpool, £10. Maize Meal (S. African): Liverpool, £9; London, £9 10s. Maize Germ Meal: Hull, £9 10s.; London, £9 15s. Maize Gluten Feed: London, £9.

### EGGS AND DEAD POULTRY.

A further advance is recorded in the price of Eggs at Country market. Eggs.—Week-end prices per 120: English, 27s., 28s.; Irish, 22s., 26s.; Dutch all brown, 26s., 27s.; Mixed, 22s. 25s.;



Danish, 18lb., 26s.; French all brown, 26s.; Chinese, 12s., 13s.; Italian, 20s., 22s. Dead Poultry.—Surrey fowls, 1s. 9d., 1s. 6d.; Irish, 1s. 3d., 1s.; Others, 1s. 3d., 1s. 6d.; Ducks, 1s. 4d., 1s.

## EGGS.

Per Doz.—Ashford: First, 3s. 1d.; Second, 2s. 11d. Birmingham: First, 2s. 9d.; Second, 2s. 7d. Carlisle: First, 3s. 3d. Chelmsford: First, 3s. 1d.; Second, 3s. 0d. Dembig: First, 3s. 0d.; Second, 2s. 11d. Derby: First, 2s. 9d. Dorchester: First, 2s. 9d. Exeter: First, 3s. 0d.; Second, 2s. 9d. Hereford: First, 2s. 9d. Hull: First, 2s. 6d. Ipswich: First, 2s. 9d.; Second, 2s. 6d. King's Lynn: First, 2s. 9d.; Second, 2s. 6d. Lincoln: First, 2s. 6d. Llandilo: First, 3s. 0d.; Second, 2s. 9d. Montgomery: First, 2s. 6d. Newport (Mon.): First, 3s. 0d. Norwich: First, 2s. 6d. Oswestry: First, 3s. 4d.; Second, 3s. 3d. Penzance: First, 2s. 3d.; Second, 2s. 2d. Salisbury: First, 3s. 2d.; Second, 3s. 1d. Shrewsbury: First, 3s. 0d.; Second, 2s. 10d. Skipton: First, 3s. 0d. Taunton: First, 2s. 6d. Truro: First, 2s. 6d. York: First, 3s. 3d.; Second, 3s. 0d.

## FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, \*4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Ipswich: First, \*6s. 0d.; Second, \*4s. 0d. Lincoln: First, \*5s. 6d.; Second, \*3s. 6d. Llandilo: First, 1s. 6d.; Second, 1s. 1d. Newport (Mon.): First, 1s. 10d.; Second, 1s. 6d. Norwich: First, \*6s. 6d.; Second, \*4s. 9d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 3d. York: First, \*5s. 6d.; Second, \*4s. 0d.

## DUCKS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 1s. 2d. Derby: First, \*5s. 0d.; Second, \*4s. 0d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Llandilo: First, 1s. 8d.; Second, 1s. 4d. Newport (Mon.): First, 1s. 9d. Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First, \*7s. 0d.; Second, \*5s. 0d.

\* Per Head.

## TWENTY-TWO POUNDS FOR A PULLET

### THE NATIONAL POULTRY INSTITUTE

At the time of writing the total sum collected for the National Poultry Institute exceeds £4,000. The news that His Majesty the King has been graciously pleased to support the scheme should prove a great incentive to all of us to re-double our efforts to raise the remaining sum in quick time. The S.P.B.A. share of the amount contributed to date is £821 14s. 8d. We are justly proud of this great effort, and hope we shall now soon be in a position to claim the £100 generously offered by Mr. Brooks if the Association succeeded in raising £1,000.

The pullet with a record of 303 eggs, weighing 2½ ozs. each, presented for the benefit of the fund by Dr. Menzies, has been purchased by that good sportsman, Mr. Stanley Street-Porter, of The Manor Coveney, Cambs. Mr. Street-Porter has done such valuable work for the industry that we sincerely hope that his investment will prove of great value as a stock breeder. The price paid was £22. Mr. R. Haworth bid £21, and Mr. Streatfield £20; Mrs. Florence 18 guineas. There were several bids of £10 and over, so the competition was fairly keen.



Fig. 3.—Polyneuritis. First day of disease.



Fig. 4.—Polyneuritis; severe case. Second day of disease. Reproduced by kind permission of Drs. Henry Fraser and A. T. Stanton from "Etiology of Beri-Beri," Study No. 12, Institute for Medical Research, Federated Malay States, 1911.

(From "Plimmer's Vitamins and the Choice of Food."—Longmans Green & Co.)

### THE EFFECT OF "B" VITAMIN.

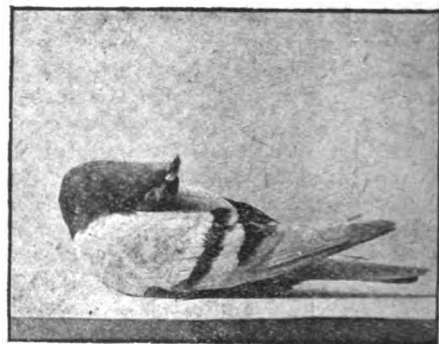


Fig. 5.—Pigeon suffering from polyneuritis.

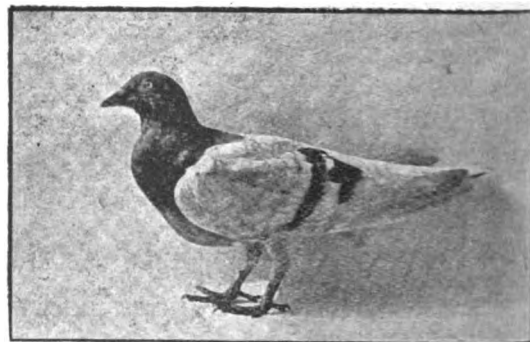


Fig. 6.—Same pigeon cured by treatment with B-Vitamin. (From photographs kindly supplied by Dr. Drummond.)



## Correspondence.

To the Editor of "Eggs."

Dear Editor,—Please allow me through the medium of your most valuable Journal to call the attention of Breeders of Pedigree Poultry and others, to the impending sale of Genuine trap-nested birds that are now competing in the Laying Tests being run for the Benefit of the National Poultry Council Funds at Paddock Road, Audlem, Cheshire, under the management of Mr. J. H. Mather, and at Myrtle Poultry Farm, Blackpool, under the management of Mr. Wm. Hamnett, also of three pens from the recent Harper-Adams' Competition and kindly donated by Miss N. H. Bell and Messrs. Tom Barron and J. H. Mather, respectively.

This sale, which will take place at Myrtle Poultry Farm, Blackpool, on Saturday, October 28th, offers a real chance to obtain stock of good breeding and with a Guarantee of number of eggs laid both First and Second grade during the 48 weeks' test, and should not be missed by anyone who requires good stock hens in White Wyandottes, White Leghorns, Black Leghorns, Anconas, Rhode Island Reds, etc., for there are some really good birds of each of these varieties.

The records of individual birds are as high as 250 Eggs, and there are lots of from 200 to 240 which I think all will agree is excellent for birds run in a flock and not forced in any way.

The Sale will be by Auction, but Mr. Hamnett and Mr. Mather have kindly offered to execute commissions for anyone who cannot be present, and they are prepared to furnish any reasonable particulars required. We are hoping to advertise the Sale in your Dairy Show Number, and trust everyone who possibly can do so will help to make the Sale a success and at the same time help themselves to some most useful birds.

Yours truly,

**H. HORROCKS,**

Gen. Secretary, Blackpool Poultry Society.

Fern Bank,

Vicarage Lane, Blackpool.

To the Editor of "Eggs."

Dear Editor,—I would esteem it a favour if you would grant me a little of your valuable space to call attention to the two further laying tests to be held at Myrtle Poultry Farm, Audlem, for enhancing the funds of the National Poultry Council.

East test will again be divided into four sections, viz.: (1) White Leghorns; (2) Any other variety Light Breed; (3) White Wyandottes; (4) Any other variety Heavy Breed; and the scoring will be similar to that of the tests now just concluding, whilst the Awards at each test will include Silver Cup, value £5 5s., to be won outright, also Gold, Silver, and

Bronze Medals, etc., in each Section, and Specials for highest Winter Egg output. One single bird comprises an entry, and same must be given to the Fund and will be sold by Auction at the end of the test (48 weeks). The tests will commence 11th November, and birds to arrive 7th November. The entry fee is 5s. per bird, and accommodation will be provided for 150 birds at each place. Entries close 1st November, and entry forms with particulars can be obtained from either Mr. Mather or myself.

Yours truly,

**W. HAMNETT.**

Myrtle Poultry Farm,  
Blackpool

### APPLICANTS FOR MEMBERSHIP.

E. Collier, Hoylands Poultry Farm, Ingol, Nr. Preston.  
Noble, Edwin, Pantiles, Milford-on-Sea, Hants.  
Logan, Mrs. John, Hocom, Bridgnorth, Shropshire.  
Watkin, Miss E. N., Bothaville, Waterside, Chesham.  
Pearce, Mrs. H. A., Silverdale, Hucclecote, Nr. Glos.  
Copper, C. G., "Fellands," Earlswood, Redhill, Surrey.  
Hurst, Fred., 38, Bedford Street, Carr Hall, Nelson, Lancs.  
Crawford, K. A., Dilham Grange, Norwich.  
Heyland, Capt. W. F., Southside, Dane Road, St. Leonards-on-Sea.  
Theobald, A. P., Whitewings Poultry Farm, St. Marybourne, Nr. Andover.  
McDonnell, P., Rose Park P.F., Thorverton, Nr. Exeter, Devon.  
Hardstaff, Miss Mirian, Thorney Abbey Farm, Southwell, Notts.  
Simpson, M. P. J., The Nursery Poultry Farm, Wigtoft, Boston, Lincs.  
Jones, Harved S., Kadima, Singleton Road, Kersal, Manchester.  
Leng, John Wm., Golceby, Louth, Lincs.  
Latham, J. B., Camberwell, London, S.E.5.  
Bamford, H. S., Thornton Hall, Thornton Hough, Birkenhead.  
Agate, Chas., 28, East Street, Horsaam, Sussex.  
Smith and Prentice, The Progressive Poultry Farm, Sanctus Road, Stratford-on-Avon.  
Cook, P. C., Paddock, Highroad Well, Halifax, Yorks.  
Rolfe, G. T., Splott Road, Cardiff.  
Taylor, W. J., Standford Hill, Bordon, Hants.  
Sale, R., Warwick Avenue, Woodthorpe, Nottingham.  
Robertson, Claud H., Ward House, Bere Alston, Devon.  
Elsby, John, Dimsdale Nurseries, Wolstanton, Stoke-on-Trent.  
Holland, Walter C., Beech View, Brackley.  
Wood, S. G., "Woodvale," Halstead, Sevenoaks.  
Davis, Tom W., "Arran," Manor Gardens, Romford, Essex.  
James, G. D. G., 7, Woodville Terrace, Gravesend.  
Springman, H. H., Brynmair, Ruthin, North Wales.  
Sparkes, T., The Moor Poultry Farm, Corley Moor, Nr. Coventry, Warwickshire.  
Alston, Mrs. J. S., Little Court, Buntingford, Herts.  
Newman, Miss K. M., Bryn Corach, Conway, N. Wales.  
Nicholls, Thom, Springfield Park, Sandiacre.  
Greenwood, Miss A., Moat Cottage, Wattisfield, Diss, Norfolk.  
Fleming, G. A., Oakleigh, Bingley, Yorks.  
Lawson, Jas. B., Cowdenbank, Alma Lane, Falkirk.  
Cook, Wm., The Hawthorns, Duns, Berwickshire.  
Ferrame, Mrs. Montgomery, 4, Hamano Street, Bootle, Liverpool.  
Loaring, Edwin G., Swiss Cottage, Thrapston, Northants.  
Wallbank, R., Stairs P. and D. Farm, Oxenhope, Nr. Keighley.  
Davies, Jas. W. J., North Close, Saundersfoot, Pem.  
Charlesworth, John Robt., Broadhambury, Nr. Honiton, Devon.  
Carter, W. C., c-o Mr. Summers, "Homefield," Slievegall, Bilericay.  
Hart, Lt.-Col. G. V., D.L., Kilderry, Nr. Londonderry, Ireland.  
Scovell, John N., Carter's Farm, Headley, Newbury.  
Law, Miss Irene, Springside House, Lumb in Rosendale, Manchester.  
Clegg, H. L., 685, Lower Holme, Whitewell Bolton, Waterfoot, Manchester.  
Beale, Miss R. B., Sun Hill House, Royston, Herts.  
Hoo Poultry Farm, Welwyn, Herts.  
Sworder, Mrs. M., Cophall Poultry Farm, East Dean, Eastbourne.

Scott, A., Greenbank, Whatlington, Battle.  
 Adey, Aaron, 881, Gomer Street, Willenhall.  
 Backhouse, T. S., 55, Foundry Street, Duckingfield, Chesh.  
 Kemp, Ed. E., 62, Herbert Road, Plumstead, S.E.  
 Knifton, E. S., East Bilney P.F., Dereham, Norfolk.  
 Wilson, R. O., Sowdens, Stogursey, Bridgwater, Som.  
 Bottomley, Robt., Thornleigh P.F., Smithy Bridge, N. Rochdale.  
 R. Smith and Son, Queen St. Granaries, Hemel Hempstead, Herts.

Denby, Alfred, 53, Romer Road, Kensington, Liverpool.  
 Shelley, F. E., 80, Clapton Common, London, E.5.  
 Simmonds, Norman, Westbourne Poultry Farm, Guildford Road, Cranleigh, Surrey.

Taylor, J., 80, Alexandra Street, Hurst, Ashton-under-Lyne.  
 Lindsay, R. A., 36, Kirkstall Avenue, Kirkstall, Leeds.  
 Harland, Robt., 1, St. Andrew Terrace, Corbridge, Northumberland.

Evans, W. H., Maesycod, Guscym Road, Burry Port.  
 Eastwood, G. F., The Cock Inn, Birdwell, Nr. Barnsley.  
 Smith, Harry, Upper Hagg, Thongsbridge, Huddersfield.  
 Hubbard, Ed. G., The Nurseries, Bow, N. Devon.  
 Gordon, Lord Dudley, Wilmington Hall, Dartford, Kent.  
 Thorman, J. S., The Hawthorns, Queen's Avenue, Woodford Green, Essex.

Andrews, Geoff., Bowbridge House, Mackworth, Nr. Derby.  
 Pargeter, C. W., Stamford Lodge, St. Johns, Sevenoaks.  
 Juster, Miss F., Merrylands, Kenneth Road, Thundersley, Essex.

Clutterbuck, J. H., Oak Cottage, Homestead Road, Ramsden, Bellhouse, Ex.

Browne, A. Wilson, 28, Charlton Street, Maidstone.  
 Macpherson, C. Gordon, Birtley, 6, Crescent Road, Bournemouth.  
 Keogh, Col. J. H., c/o A. H. Capper, Esq., The Laurels, Padworth, Berks.

Bancroft, Wm., Sunny Bank, Oakworth, Keighley.  
 Padgett, Albert, 21, Milcarhill Road, Woodlands, Oakenshaw, Nr. Bradford, Yorks.

Docker, Edward, Bosley Wood, Christchurch, Hants.  
 Coych, Kenard, 8, St. George's Road, West Hampstead, London, N.W.6.

Milnes, J. N., Elvington P.F., Dunnington, Nr. York.  
 Royden, Wm., 21, Ormande Street, St. Helens, Lancs.

## POULTRY CLUB PRESIDENCY.

### ELECTION RESULT.

Clem Watson, 285 (elected); Major Potter, 226; A. Cunliffe, 125.

## "EGGS" and WHAT OTHERS THINK

### WORDS OF APPRECIATION FROM ADMIRING READERS.

Steady and constant increase in the circulation of "Eggs" has long convinced us that the lines which this journal is conducted are popular among all interested in the breeding and rearing of poultry and we felt justified, in publishing the following the information of our readers and advertisers:—

### TESTIMONIALS.

The Gows, Invergowrie, by Dundee.  
 "I should like to express my admiration of 'Eggs' which under your able editorship, is far and away the most interesting Poultry Journal published in Britain."

W. STIRLING DRAFFEN.

203, High Street, Talke Pits, Staffs.  
 "I got my first copy of 'Eggs' about ten weeks ago, noticed the name on my wholesaler's sheet and sent for one of curiosity. Have learnt more out of those ten copies than one hundred ordinary Poultry Publications.  
 "Others in this vicinity are now also readers of 'Eggs' (Nuff said)."

S. SHIPLEY.

Trusloe Manor, Avebury, Marlboro', Wilts.

"Eggs" I find absolutely invaluable and so practical a full of information, that, although I am an absolute novice, have not yet had to trouble you with personal queries, and have found all I wanted to know in 'Eggs' within a very short time.

MAJOR A. L. CARTWRIGHT.

# THE-HOUSE-OF-WENNY

RHODES MINNIS, CANTERBURY,

HEADQUARTERS for Genuine Trap-Nested Pedigree

## LIGHT SUSSEX

They are the outcome of Six Years' Careful Breeding of the Leigh-Rothschild Strain. Public opinion says they are better than the remaining best.

### Our Leghorns.

Thelwall, Warrington.

Dear Sirs,—Let me say right away that I have hatched out this spring 300 chickens, but out of the whole lot there are none that stand out so fine and vigorous as yours, they are a perfect treat and must have come from really fine and healthy stock. I had 30 eggs from you, one was broken, and from the remainder I got 29 sturdy chicks.

B. J. P.

### Our Mendels.

Bexley Heath.

Dear Sirs,—From the Mendels eggs supplied last year I got 10 pullets, and laid to date 2,025 eggs. I should think this is a record. Next, etc., etc.

A. W.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**ROUGHTON via NORWICH.**

Rev. F. KENNEN, S.P.B.A.,  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from dam's 273-280 eggs. Sire's Dam, 255 eggs in pullet year.  
Pullets No. 50, winner of Special and 1st Prize, Sept. 9th, 1922. Pen No. 1, headed by Male from 250-240, hen (Latham). Pen No. 2, later hatched, but with special forward male. Orders now taken for Sittings, Day Olds, and Early Pullets and Cockerels. Prices and Records given on application.

### Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.,  
WYNT. DUNFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good winter layers kept for breeding.

### F. A. HULME. Heathfield Commercial Egg Farms

HEATHFIELD, SUSSEX.

### WHITE LEGHORNS.

Breeding Hens, Cockerels.  
Hatching Eggs in Season.

### P. N. SHELLEY S.P.B.A. and N.U.P.S.

Breeder of Utility Trap-nested  
**RHODE ISLAND REDS**

1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

GEO. N. WORTERS,

UPLANDS POULTRY FARM, ROTHER-  
FIELD, SUSSEX.

LIGHT SUSSEX, RHODE ISLAND REDS,  
LEGHORN - SUSSEX, LEGHORN - B.I.R.,  
FAWN AND WHITE RUNNER DUCKS.

Pullets and Stock Birds from trap-nested  
hens.  
Over 300 Trap-Nests in use.

You can depend on it.  
**ONE OF THESE SPACES  
COSTS:**

13 weeks, 5s. 6d. per insertion

26 " 5s. 0d. " "

52 " 4s. 6d. " "

(Not less than 13 accepted).

### WHITE WYANDOTTES.

L. WILLIAMS.

Easton Poultry Farm.  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS

### G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.

WHITE LEGHORNS.  
LIGHT SUSSEX.

Pullets, from 10/-, according to age.  
Inspection invited.

**MILL VIEW POULTRY FARM,**

TENTERDEN, KENT.

Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE.

S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPWAY POULTRY FARM.**  
TORQUAY, SOUTH DEVON

### Miss N. B. MADDISON,

S.P.B.A., N.U.P.S.,

Dane Hill, Sussex.

### RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

Grand Early Cockerels for Sale.  
All Trap-Nested Pedigree Utility Stock.

### QUAKER BROOK POULTRY FARM,

### WHITE LEGHORNS

### WHITE WYANDOTTES

### HOGHTON nr. PRESTON

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,

Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap  
nested Utility Poultry.  
R.I. Reds (s.c.), White Leghorns,

White Wyandottes.

Black Leghorns.

**A MOST  
PROFITABLE INVESTMENT.**

**IF IT IS ADVERTISED IN**

**"EGGS"**

**WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.**

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.  
Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

A. F. C. HOLDAWAY.

### R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.O.,  
Pinchurst Poultry Farm.

Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.

Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries invited.

### The MISSES RANSFORD, White Leghorn Stud Farm

All Birds Trap-Nested.

All Birds on Free Range.

**PERSEVERANCE POULTRY FARM,**  
PENSFORD, BRISTOL.

Pedigree Cockerel List Now Ready.

MISS ARGLES, N.U.P.S., B.C.

Pullets and Cockerels bred from my famous  
White Wyandottes.

Twice top score, one third in four years in  
All Ireland Laying Competition.

White Leghorns, Miss Edwards' splendid  
laying strain.

From 10/-, according to age and pen.

**ANSTEE POULTRY FARM,**  
ALTON, HANTS.

Rev. C. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds.  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

WALTER FOSTER,

Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.  
Breeder of Pedigree Trap-nested Large  
Egg.

White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.

Cockerels and Pullets.

Breeding Stock of the Highest Class.  
Particulars upon Application.

**WHEN WRITING ANY OF THE**

**ABOVE RELIABLE BREEDERS,**

**PLEASE MENTION "EGGS."**

## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgement of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

Insertions for the price of 1	
6	1
9	2
12	3

### FOR SALE. PULLETS.

**BUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

March hatched **W. LEGHORN** Pullets, ready for lay, from hens with records 228-248, sired by cockerel, from 288-egg hen; 25s. 6d. each. **WHITE WYANDOTTES**, April hatched (220-270); will lay during October; 21s. 6d. each; selected birds, 25s. R.I. REDS, March hatched, near laying; 21s. 6d. and 25s. each. Only limited numbers.—C. D. Cheesbrough, M.S.P.B.A., Carlton, Nottingham.

Twelve R.I. RED Pullets, April hatched; well grown; 12s. 6d. each. On approval. Carriage paid.—Keith Scott, Brabourne Lees, Ashford, Kent.

Two **WHITE LEGHORN** Pullets, April hatched, from Hanson's hens direct; sired by cockerel, (four-guinea bird); Warwick Rogers direct; son of hen whose official record winning pen S.P.B.A. stock tests was "over six eggs weekly for eight months"; 21s. and 25s.; cockerels same price.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

Sixteen R.I.R. Pullets, Measure's Gold Medal Pen, March 6th. Grand condition; £11. Cockerel, same hatch, 12s. 6d.—C. W. Richards, S.P.B.A., 1, Court Road, Madeley, Salop.

**WHITE WYANDOTTE** Pullets (March, 1922), three dozen selected Pullets for sale, from grand laying strain. Approval. Cash with order; 21s. each, carriage paid on six.—Watts, St. Avis, Ringwood, Hants.

Pullets, 1922. Six **LIGHT SUSSEX**, seven months, 15s.; Seven R.I.R. and Five **WHITE WYANDOTTES**, five months, 10s. 6d.; reared free range. Approval, carriage paid.—Wildman, M.S.P.B.A., Newbold Verdon, Leicestershire.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS**.—Ordinary Page, 28 15s. 6d.; Half Page, 24 1s. 6d.; Quarter Page, 20 4s. 0d.; One Column, 23 18s. 6d. Half Column, 21 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. One and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

**ADVERTISEMENTS** must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16 by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisements are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

Six Pedigree T. Barron **WHITE WYANDOTTE PULLETS**; Five Ditto, **LEGHORN PULLETS**, 25s. each; also pen second season **WHITE WYANDOTTES**, mated T. Barron's Pedigree Cockerel this season; £7 10s.—Particulars, Leadbitter, 5, Onslow Gardens, Wallington.

Pullets, 1922. Six lovely April hatched **WHITE LEGHORNS**; £4 10s. the lot. Also 30-egg Tank Incubator, good hatcher; buying larger machine; £2 10s.—Miller, S.P.B.A., Meadow View, Binstead, Isle of Wight.

### HENS.

What Offers for 18 Croads, March, 1921 (Behren), pen average October to January 45. See article by Editor, "Eggs," December 22nd, 1920.—Ballard, 35, Princess Road, Bournemouth, West.

### COCKS AND COCKERELS.

**BLACK LEGHORN** Cockerels, March hatched; Margerison's special pen direct; pedigree given; enquiries solicited.—John Williams, M.S.P.B.A., 82a, Cox Green, Dunscar, Bolton, Lancs.

R.I.R. Cockerel, March, guaranteed son of Miss Kitchen's 265-egg hen, Lady Hardington, offers, or would exchange for Pedigree Black Leghorn Cockerel, or 1921 trap-nested hen.—Cottam, 31, Houghton Street, Hanley, Staffs.

**BUFF ROCK** Cockerels, early March, same strain as my S.P.B.A. Test winners; 17s. 6d. each.—Lewis Baxter, Easton, Stamford.

Four March hatched **PEDIGREE WHITE WYANDOTTE** Cockerels, Barron's, also Three Leghorns; 30s. each.—Leadbitter, 5, Onslow Gardens, Wallington.

Cockerels, **WHITE LEGHORNS**, March hatched, direct Priest and Shaw; fine healthy birds, from 12s. 6d.—Four Marks Poultry Farm, Hants.

**LIGHT SUSSEX** Cockerels, Harrison-Bell Rothschild strain; March and April hatched; 12s. 6d. each.—T. Smith-William, Manor Farm, Knebworth, Herts.

**WHITE WYANDOTTE** Cockerels, bred from daughters of Cam's famous pen A with records of 263-287, by Son of College Queen (301); 21s., 30s., and 41s.—Remy Shutt, M.S.P.B.A., Birstwith, Harrogate.

1922 **LIGHT SUSSEX** Cockerels (Phillips) 15s. and 18s. Also **W. WYANDOTTES** and **W. LEGHORNS** (Phillips), 10s. 6d. and 12s. 6d.—J. A. Eddleston, M.S.P.B.A., Wycolar, Blackburn.

For Sale, Three Beautiful **BLACK LEBRESSE** Cockerels; 15s. each.—Mrs. G. Gibbs, Gratwicke-Flax-Bourdon, Somerset.

Cockerels, **BLACK MENDELS** (Smart), **BLACK LEGHORNS**, **BUFF ORPINGTON**. Write for particulars.—Button, "Amdale," Long Eaton.

### 1st IN WYANDOTTES.

100 per cent. First Grade Eggs, Single Bird Test, Cheshire Section; cockerels related to above from 240s.-egg; heavy layers.—Captain Heeseltine, Bopley.

### STOCK COCKS AND COCKERELS.

**WHITE LEGHORN** (1921), Dr. Baldwin direct, dam's record 286 in pullet year; **WHITE WYANDOTTE** (1921), Dr. Baldwin direct, dam's record 269 in pullet year. Also a few **LIGHT SUSSEX** and R.I. REDS (s.c.) Cockerels left; February hatched from hens with good records; £1 1s. each.—Mrs. W. Hutson, The Poplars, Stow Bridge, King's Lynn, Norfolk.

**WHITE WYANDOTTE** and **WHITE LEGHORN** Cockerels (Parson's Strain) Dams' trap-nest records from 220-284. From 15s. each. Few Pedigree Cocks, from 12s. 6d.—Simmons, Fairview Poultry Farm, Hembury Fort, Honiton, Devon.

**BLACK LEGHORNS**. Stock Cockerels, May hatched, 15s. 6d. Collinson's strain sired by brother of "Daily Mail" winner 1920.—Sabine, West Lulworth, Wareham.

## B.A TEST WINNERS.

February hatched Cockerels from 25s. each. Also February-March Cockerels, from pen consisting of world's record layer and non-day hens, with dam's records 245-286. Other's strain, 17s. 6d. each. Light Sussex Cockerels, March hatched. Lister-Tom 17s. 6d. each. All finest pedigree. Full particulars on request. Birds on approval, carriage paid.—D. and Graddon, M.S.P.B.A., Northwood P.F., Bkhill, co. Durham.

## SPECIAL OFFER OF PEDIGREE COCKERELS.

WHITE LEGHORN, bred from Oam's famous Grimley winners, holding world's record for winter laying; dam's records 255; winter records 79-109. Average eight of eggs, 24-2 3-8oz. Only a few March 1 April hatched left; 10s. to 15s. each. Carriage paid. — Bealing, Jesmond Dene, Regess Street, Bassett, Southampton.

## BLUE ANDALUSIAN COCKEREL.

Dairy Champion strain; well developed; perfect type, utility; 12s. 6d., Exhibition, 1st and 30s. R.I.R. Cockerels, beautiful deep red to skin; big, well developed; fully good Aristocrat strain; 25s. to 30s. "Bridgelynn" Poultry Farm, Horeham Road, Sussex.

COCKERELS. — Stock Cockerels, R.I.R., from my Pens I. and II., hatched January-February, 1922, from dams with winter record 55-72, by sires direct from E. C. Boucher, sons of his World's Record Hen and Hen 48 (306 eggs in 12 months); price 15s.—Harold Hall, Wollaston Hall, Wellingborough.

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks (all colours). Records to 269. Approval.

1921 WHITE WYANDOTTE Cockerels, dam's 269-287, sire 293, 24 oz. eggs; 30s. each. Thirty, 1922, 20s. Approval. Carriage paid.—F. and T. Lumb, Fairfield, Hebden Bridge.

BUFF ROCK Cockerels, bred from stock supplied by J. H. Cooper, dam's record 26-238, February and March hatched, pedigree on application; 15s. to 30s. each. — Farrar, Brookroyd, Batley, Yorks.

## BOUCHER'S DIRECT.

A few R.I.R. Cockerels, February hatched, from Pen A., ringed to mothers (310-285 eggs in pullet year); £2 2s. each. Carriage paid. — Stapleton, "Sands," St. Brelades, Jersey.

## 281 EGG RECORD R.I.R. COCKERELS.

Also from 280 and 262 records hens; hatched February, March; price from 30s. All birds personally trap-nested and picked for stamina.—D. Hasler, Frinton-on-Sea.

BROAD LANGSHAN Cockerels from the Club Secretary's trap-nested stock; 15s. Silver Campines, 10s.—Rev. C. Stobie, M.S.P.B.A., M.C.L.O., Forgue, Aberdeen-shire.

Five LIGHT SUSSEX Cockerels, April hatched, 1922; from Bostock Smith's No. 3 Pen; fine healthy birds.—Apply, The Ferns, New Cope, Medstead, near Alton, Hants.

## TOM BARRON DIRECT.

February hatched WHITE WYANDOTTE Cockerels, splendid birds; good type and stamina, from L2 hen (Barron), layer of 34 eggs in 36 winter days; sired by Barron Cockerels, son of 285 large egg hen; price 30s.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

## HATCHING EGGS.

Two year old WHITE LEGHORNS, mated 270-egg cockerels; 6s. dozen; 40s. hundred; for Waldron Station; order now for January onward.—H. Chesterton, Chiddingfold, Sussex.

LIGHT SUSSEX, WHITE WYANDOTTES, April hatched; 10s. 6d. AUSTRALORPS, May hatched; 15s. 6d. Stamp for particulars.—Mrs. Rushton, Barnacre Lodge, Garstang.

ANCONA, W. WYANDOTTE, W. LEGHORN, Stock Cockerels, March and April hatched; 8s. each, carriage paid. Surplus to requirements.—E. N. Parris, Danecroft Poultry Farm, Bagshot.

## WHITE LEGHORN COCKERELS.

February and March, Dr. Baldwin's direct, fine, healthy birds; reared on free range at 600ft.; 15s. to 25s. each, carriage paid.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

## APPLIANCES.

STANWORTH SOOLE Brooder Stove, complete; £7 10s. Small Kibbling Machine, 30s.—Ashenden, Patricbourne, Canterbury.

100 Phillips' "IRONSTONE," 60 HEARSON; both new, 1922; perfect condition; £6 10s. each.—Capt. W. Pritchett, Marden, Kent.

GLEVUM 500 Chick Blue Flame Hover, used two seasons; £4 10s.—Old Thatch, Helmingly, Sussex.

## GALVANISED CORN BINS.

1 cwt., 3s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid.—Hudson, Sheet Metal Works, Patricroft, Lancs.

Selling Out, Removing.—Six 80 Chick Size "PLANOK" Fireless Brooders, indoor, easily converted; used once; splendid rearing appliances; present price, £4 4s.; accept £3 5s. Hearson ANTHRACITE Stove, 500 chick; used once; best offer secures. 200-egg Tamlin INCUBATOR; splendid hatcher, almost new; £12. 100-egg Tamlin INCUBATOR; self-supply lamp; old machine; good hatcher; £4 10s.—R. H. Stuart, M.S.P.B.A., N.U.F.S., Diplon, Co. Durham.

Phipp's Premier HOT-AIR INCUBATOR, 160-egg, used three seasons; selling to make room. Double Incubator. £4 10s.—Coulson, Chew Magna, Somerset.

## "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Best galvanised. British only, stamp, net. —Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell Herts. Reduced.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramaden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

## WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

## DUCKS AND DRAKES.

FAWN and WHITE RUNNER Duck 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfeld, Sussex.

## 1st IN BUFF ORPINGTONS.

National Laying Test, 1017 eggs in ten months; 1st, Special, County Utility Cup. Winchester; pens, Stock Birds. — Captain Heseltine, Ropley.



### IN NATIONAL DUCK LAYING TEST.

My Pen 49, consisting of Five WHITE RUNNER DUCKS have averaged just over 51 EGGS EACH IN 56 DAYS.

Ducks No. 241 laid on 116 consecutive days. Book Ducklets and Drakelets now; also Khaki-Campbell Drakelets; all at moderate prices. Duck Laying Meal, 22s. per cwt., f.o.r.—Capt. Negus, Upper Longdon Poultry Farm, Eugeley, Staffs.

Four Massive AYLESBURY Ducks, One Drake; good pen for breeding. Also Eleven WHITE RUNNER Ducks, on point of laying; all 1922 hatched; 10s. each.—Harrison, West Burton, Aysgarth, Yorks.

Two well-grown 1922 hatched Drakerels, from eggs from Oscar Brown direct; 15s. each. Also Brother to above, with Mallard colouring; 10s. All carriage paid.—Roberts, Mill House, Headcorn.

Sixty FAWN and WHITE INDIAN RUNNER 1921 Ducks. Moldich. Through moult and mostly laying; 7s. 6d. each. Carriage paid on six. Unrelated Drakes, March, 1922; 9s. 6d. each. Here's an opportunity to make up a good Breeding Pen at low cost. Room wanted for young stock.—Pearson, S.P.B.A., Whitelines Poultry Farm, Cranbrook, Kent.

WHITE RUNNER Drakes, hatched April, 1922; Taylor's strain. KHAKI-CAMPBELL Drakes, hatched April, 1922; magnificent birds; 10s. each.—F. P. Musgram, Loch Poultry Farm, Partridge Green, Sussex.

Drakes. KHAKI - CAMPBELL, COALEY FAWN, BUFF ORPINGTON, WHITE and FAWN and WHITE RUNNERS, from best strains; 10s. each.—Bungalow, Bentley, Suffolk.

### TO IRISH MEMBERS.

#### KHAKI-CAMPBELL DRAKES.

For Sale. Harold Paine's direct.—Mrs. Barrow, Milestown, Castlebellingham, Ireland.

#### FAWN RUNNER DUCKS.

Nineteen 1921 DUCKS, direct Wilson strain; 10s. 6d. each, or £9 the lot. Drakes from 7s. 6d.—Greenwood, Cheddingley, Sussex.

Ducks and Drakes.—KHAKI-CAMPBELL Drakes, April hatched, from Capt. Long's No. 1 Pen; fine, vigorous birds; moderate price, or Exchange.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

NYE and SON offer Pedigree FAWN and WHITE RUNNER DRAKES from their strain which produced world's record layers, 423 eggs in 437 days, etc.; from 7s. 6d. each. Inspection invited. Shoreham-by-Sea.

### AYLESBURY DUCKS.

Ducks from very large prize winners; 10s. 6d. each; Drakes from 7s. 6d.—Greenwood, Cheddingley, Sussex.

BUFF ORPINGTON Drakes (Street Porter), at 15s. each; size and colour excellent.—Mr. Witherford, Markington Hall, via Harrogate, Yorks.

We have for Sale a limited number of early 1922 hatched AYLESBURY Ducks and Drakes. These are massive birds, and very quick growers, and if you wish to obtain a really good strain of table ducks these are cheap at 20s. each, carriage paid. Four days' approval. C.W.O., or deposit with Editor.—Smith Bros., 63, Reinwood Road, Lindley, Huddersfield, Yorks.

### PIGS.

YOUNG PEDIGREE LARGE BLACK GILT, 45s. each; only five left in-lug Sows at reasonable prices.—Douglas Ann, Old Thatch, Hellingly, Sussex.

### BREEDING PENS.

#### ANCONAS.

40 1921 Hatched ANCONAS (Adams and Linkie, Romano Bridge) Moulting now, so will make excellent breeding pens; 7s. each, or would consider offer for whole.—W. H. Scott, Carnsalloch Poultry Farm, Dumfries.

### GOLDEN-BARRED PLYMOUTH ROCKS.

Can spare few Breeding Pens, all bred from three generations at least of 200-egg ancestors. National Laying Test, second and silver medal. Fine table birds; no wastage with unsaleable cockerels.—Stuart-Thompson, Woodbyth, Peterborough.

### RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

### FOODS.

#### WHAT DO YOU PAY?

Finest Quality MEAT or FISH MEAL, 17s. 9d. cwt., f.o.r.; 5cwt. carriage paid. Samples, stamp.—Douglas Ann, Old Thatch, Hellingly.

### GRANULATED CHARCOAL.

Guaranteed Quality, half-cwt., 12s.: one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

### POULTRY CHARCOAL

DIRECT FROM

#### THE MANUFACTURERS.

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal.—J. B. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5.

### DERBYSHIRE LIMESTONE GRIT.

3s. 6d. cwt.—Thornhill, Great Long, Derbyshire.

### MISCELLANEOUS.

Strong, Vigorous Early-March, 1922, RED Boucher-Crawley Cockerels, and W. WYANDOTTE (Barron-Cooper) kerels. All of fine type and colour, from high record hens. 20s. each. A few 1921 Breeding Hens, with good records, 10s. each.—Philip Goodwin, "span," Cheadle Hulme, Cheshire.

### BIRDS OF HIGH DEGREE.

WYANDOTTE Cockerels. March bred from 238 hen, and a Frank Sire sire 293, mated to Cam's "English Supreme" and "College Queen" 21s.; a few selected birds; 25s. 10s. SUSSEX and S.I.R.; grand birds; RUNNER Drakes, 7s. 6d.—The Grove Poultry Farm, R.S.P.B.A., Grendon Underwood near Aylesbury, Bucks.

PULLETS, May hatched, White, Black Leghorns, White Wyandottes, Rocks, 12s. 6d. each; April, cross-bred, 6d. DUCKS, Orpingtons, Aylesbury, Runners, April hatched; some laying; 13s. DRAKES, 10s. 6d.—Mrs. Wilson, M.S.P.F. Minorca Farm, Denholme, Bradford.

Early BUFF ROCK Cockerels and SUSSEX; 7s. 6d. each; FAWN and WHITE RUNNER Drakes, 6s. each.—Walker, Newbiggin, Penrith.

### WINTER EGGS.

Breeding Pens or Single Birds, Selected Winter Layers, Rhode Island Reds, Rocks, Black Mendels. Birds reared extensive free range; trap-nests, particulars.—Mrs. Manwaring, S.P.B. F.N.U.P.S., "Plovers," Horsmonden, Kent.

### EXETER POULTRY AGENCY, WOOTTON.

For hens that lay, eggs that pay, to early Sittings of Eggs and Day-Old Chicks. Prize strains. Croad Langshans, Silver Spangles, also B.I. Reds (B.C.) Stamp for list.

Pedigree, high fecund, trap-nested S.W.B.U. Free range, roosting in trees. Man's Dry Mash. Absolutely best White Leghorns; Two, 8th April, 15s. each. One, 9th May, 12s. 6d.; One, 4th June, 10s. S.c. Anconas; Two, 2nd April, 15s. each. Houdans; One, 2nd April, £1 1s.; One, 5th April, 15s.; Three, 29th June, 10s. each. July hatched, 81 Leghorns, Five Anconas, Six Houdans; 5s. each. Pedigree given. Deposits, Editor. £10 the lot. Hatched, charged, but returnable.—Short, M.S.P.F. Mossburn, Curt-Farnham, Surrey.

25 WHITE LEGHORN Pullets, Cam and Padman; early May; from trap-nested stock; milk-fed; 13s. 6d. CROAD-LANGSHAN Cockerels, from trap-nested stock; 15s.—Major Disney-Roebeck, Hoo Heath Poultry and Dairy Farm, near Yelverton, Devon.

## Mrs. A. J. PAIN

Leath, Park House, Leighton Buzzard, has the following stock for sale:—Fawn and White Runner Drakes, 15s. each; White Rhodhorn Cockerels, same strain as her "Daily Mail" Test Pen, 15s. each; Rhode Island Red Cockerels, wonderful laying strain (s.c.), 12s. 6d. and 15s. each. Also pullets, from 12s. 6d. each. Ancona Hens (1921), Mrs. Hoyle's, 8s. each. All carriage paid.

## EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig.-General Maconchy, Edenmore, Hook, Hants.

F. JOERGENSEN, Specialist and Largest Breeder of Crows. Stock Birds, Pullets and Chicks — Kennylands, Emmer Green, Reading.

## WHITE ORPINGTON ONLY.

Write for prices and particulars of our trap-nested stock.—Manager, Westridge Egg Farm, Wotton-under-Edge.

## CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.

1920 and 1921 Hens for Sale, WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS, and WHITE LEGHORNS; 5s. to 10s. each, according to age and record. All with records from 175 to 240. Individual records supplied. Stock Cockerels of above breeds. Prices on application.

## CROAD LANGSHANS.

Twenty-three fully-matured January hatched Pullets; bred from prize winners, in full lay; 21s. each, or twenty guineas the lot. Also Stock Cockerels, January hatched, from similar pens; 12s. 6d., 15s., and 20s. each.—Greenwood, Chiddingfold, Sussex.

RHODE ISLAND RED and BROWN LEGHORN Pullets; February, March, April; 7s. 6d. to 15s., according to age and quality. Best Utility strains. Also February Cockerels.—Hudson Bros., St. Catherine's Poultry Farm, Guildford.

## WATLINGTON POULTRY FARM. SPLENDID OFFER.

of 30 WHITE ORPINGTONS, May, 1921, hatched; 8s. 6d. each; excellent for breeding stock.

## BUNGALOWS.

HAMPSHIRE.—For Sale, Artistic Modern Bungalow (2mins. station). Poultry Houses, Garage, etc. Eight acres. — Four Marks Poultry Farm, near Alton.

## PARTNERSHIP.

Lady wishes to meet another with Small Poultry Farm and Garden, near London; willing to share work and expenses in return for comfortable home. Interview. References.—A. F. C., "Vankarier," Highbury, Hitchin, Herts.

Working Partnership Wanted, in Commercial Egg Farm, or with a gentleman just starting up. Capital and experience available.—Box No. 170, "Eggs," 94, Farncombe Street, London, S.E.16.

## PUPILS.

The ELTY POULTRY FARMING SCHOOL, Flax-Bourton, Som. Principal: Langdon-Thomas, F.B.S.A. (by exam.), large county house, outakirts Bristol; 30 acres; 6,000 egg incubation; all modern plant; lectures, practical tuition; thorough training guaranteed; fees £2 weekly. Tuition, board, residence.

Vacancy for Lady or Gentleman Pupil, on Up-to-Date Poultry Farm. Beautiful healthy spot, most comfortable home. Young society.—Simmons, Hembury Fort, Honiton, Devon.

BEECHES POULTRY FARM, MOBBERLEY, CHESHIRE. Vacancy for One Pupil. All branches of Pedigree Utility Poultry Farming. Trap-nests, construction of appliances, etc. Pedigree herd of pigs. No fees. Accommodation near at hand.

## EXCHANGE.

To Exchange.—Four Cam Padman Cockerels, sire's dam 276, hens 220-296, for our same strain, as good April hatched. — Moncrieff's Poultry Farm, Little Mongeham, Deal, Kent.

## WANTED.

Wanted, AUSTRALORP Hens, 1920 or 1921; genuine pedigree strain.—Mrs. Rush-ton, Barnacre Lodge, Garstang.

## PULLETS.

Wanted, Six or Eight LEGHORN Pullets, for egg production only. Semi-Intensive. Dry Mash Feeding. Winter Layers. — Mrs Shaw, Bungalow, Otlands Chase, Weybridge.

## SITUATIONS VACANT.

WANTED, Gentleman, board with, and assist, Public School Man running small up-to-date Poultry Farm, Somerset. Must be strong and keen.—Box 172, "Eggs," 94, Farncombe Street, London, S.E.16.

## SITUATIONS WANTED.

LADY Requires Post on Poultry Farm; experienced incubating, rearing, etc. A good worker.—Box 171, "Eggs," 94, Farncombe Street, London, S.E.16.

TEMPORARY EMPLOYMENT (1 - 12 months) Wanted by Manager and Assistant. Eight years' experience utility, also knowledge carpentry, general farming; awaiting possession own farm. Can be interviewed, S.P.B.A. Stand, Dairy Show.—Write Hodgson, c/o 26, St. Mark's Road, Hanwell, W.7.

SITUATION WANTED, by W. T. A. Holdaway, late partner in the Woodmancote Poultry Farm; used to large Brooder Houses, rough Carpentry, and Poultry House Building; married; aged 52; not afraid of work.—Rochurst Wroxall, Isle of Wight.

WORK WANTED on Poultry Farm for young man; year's experience on M.S.P.B.A farm, two on another; good carpenter; wages £1 week, board, lodging.—Shorting, Tenbury.

## Time and Tide—

Wait for no Man!  
Embark now on the Tide  
of Publicity by using

"EGGS"  
CLASSIFIED  
ADVERTISEMENTS.

Powerful little Currents  
Moving in Profitable Channels



Our BEVEL ENDED SPRING-CLIP CELLULOID RINGS—The best and most popular of all patterns. Ends bevelled—nothing projecting—giving a neat jointless appearance.

NUMBERED CELLULOID RINGS, 12 Colours, 12, 14d.; 36, 2s. 1d.; 72, 3s. 9d. CELLULOID RINGS (without numbers), 18 Colours, 12, 9d.; 36, 1s. 9d.; 72, 3s. 3-COIL SPIRALS, 12 brilliant colours, 12, 9d.; 36, 1s. 9d.; 72, 3s.

IMPROVED INTERLOCKING ALUMINIUM RINGS, numbered consecutively or year, 12, 9d.; 36, 1s. 6d.; 72, 2s. 6d.

All Rings Post Free. The Trade Supplied.

**HUGHES, 27, HAMPTON HILL, MIDDLESEX.**



**UVECO**  
POULTRY FOOD

**56 lbs. 8'9**  
**112 lbs. 17'**

Your dealer will supply at  
these prices plus carriage  
from Liverpool or London

BY any standard—weight, nutriment, egg-producing qualities UVECO POULTRY FOOD is the cheapest branded and guaranteed poultry food on the market.

We have just revised our selling prices of Uveco Poultry Food. Now when you buy it from your dealer you pay mill prices plus carriage. This is the fairest way of charging customers.

Cheapest in price, highest in reputation, best in results. Put your fowls on Uveco Poultry Food to-day.

If any difficulty in obtaining write to

**UVECO CEREALS, LTD.**  
Cunard Building, LIVERPOOL, or  
Bermondsey Wall, LONDON, S.E.16



**7 lbs.**  
**TRIAL BAG**  
**for 1/6**  
from your Dealer.

"Henman says, 'ITS' it."



**ORIGINAL**

**"Special Lime Stone Grit."**

None genuine without this "Trade Mark."

**Takes the place of OYSTER**  
**Shell and Flint Grits.**

Retail:

**3/6 per cwt. 65/- per ton.**

F.O.R. Garston.

Bags Free.

**ALL LIMESTONE IS NOT POULTRY GRIT.**

Prepared and Supplied Wholesale only by

**E. A. PITTAM,**

**"Melbreck," Greenhill Road, ALLERTON.**

"Now is the time to place orders for WINTER Season, Quarries cannot be worked in bad weather. 'Grit' must be kept clean and free from Clay to give best results to 'Poultry' using it."

**Manufactured in Six Grades. All FREE OF DUST.**

**Write for FREE Samples.**

"Used by ALL large Poultry Farmers and Fanciers."

The following pamphlets have been written by Mrs. A. J. Pain.

**"POULTRY KEEPING on the INTENSIVE SYSTEM."**

(Third Edition) 1s. 6d. post free.

"Mrs. A. J. Pain is the greatest living authority on the Intensive System."—  
"Vide the Press."

"By following the advice in your 'Intensive' Poultry Book, I have had 1,377 eggs from seven Leghorn Pullets in ONE year."  
N.B.—The feeding in this Pamphlet is suitable for birds kept on any system of Poultry Keeping.

**"EGGS GALORE" from the Indian Runner Duck.**

1s. 6d. post free.

"I would place your books on Poultry and Ducks at the head of any books written on these subjects."

"I have been so successful with my Runners since adopting your methods and feeding."  
N.B.—The management and feeding in this book is suitable for any breed of Duck.

**"CHICKEN REARING"** (Just out). 1/6 post free.

"I have received your book on 'Chicken Rearing.' It is so full of information, so easy to grasp and a perfect boon to anyone wanting to rear Chick successfully."—R. Fletcher Hearnshaw, President of the Poultry Club.

Pupils thoroughly trained.

Highest Testimonials.

Terms moderate.

Address:—MRS. A. J. PAIN, Heath Park House, Leighton Buzzard, BEDS.

**NOTICE—POULTRY HOUSES.**

12ft. x 8ft. x 7ft. high, span roof, with 6 ventilating windows, 3 x 2 frame, 3in. T. and G. boards. Price £9., f.o.r. Darwen.  
6ft. x 4ft. x 6ft. high, lean-to house, with 4 ventilating windows, 2 x 2 frame, and 3in. T. and G. boards. Price £3 10s.; 2 for £6 10s.; 3 for £9. Cannot be equalled for quality. Terms, cash with order.

Write Me:—J. C. ASPIN.

432, Blackburn Road, Darwen, Lancs.  
Telephone: 400 Darwen.

**Chas. LAWSON STRAIN OF ANCONAS**

Can now offer a few Special March hatched Cockerels, with guaranteed records up to 260 eggs, price from £1 1s. 4d. each; also a few 1921 hens, with record over 200 each, price 14s. 6d. each. Sister to my pens at Harper-Adams' test now holding second position. My pen also holds top position for Anconas at the "Daily Mail" test.

Sunnyside, Histon, CAMBRIDGE.

# Only ONE Quality—THE BEST.

If you are just commencing Consult **WILL BARRON.**  
 If you are Re-modelling Consult **WILL BARRON.**  
 If you are Re-stocking Consult **WILL BARRON.**  
 If you require Pedigree Stock Cockerels  
 1,000 for Sale! Consult **WILL BARRON.**  
 If you require Pedigree-Bred Pullets  
 10,000 for Sale! Consult **WILL BARRON.**  
 If you require scientifically Mated Breeding-Pens  
 Consult **WILL BARRON.**  
 If you require Eggs for Hatching Consult **WILL BARRON.**  
 If you require Day-Old Chicks Consult **WILL BARRON.**  
 If you require POULTRY HOUSES, BROODER HOUSES,  
 GLOUCESTER INCUBATORS, ANTHRACITE  
 BROODER STOVES WATER-TROUGHS, DRINKING-  
 FOUNTAINS, DRY-MASH HOPPERS, EGG-BOXES,  
 Etc. Consult **WILL BARRON.**  
 If you require PRACTICAL ADVICE on any Subject  
 appertaining to UTILITY POULTRY or APPLIANCES  
 Consult **WILL BARRON.**

**EVERY APPLIANCE IS PRACTICAL.**  
**EVERY BIRD IS A PROFIT-EARNER.**  
 As tried and tested on the  
**Bartle and Goldbridge Poultry Farms,**  
 The **FINEST** in the North of England!

A few brief facts:—

Incubator capacity ...	30,000 eggs.
Brooder capacity ...	45,000 chicks.
Adult Stock ...	8,000 birds.
White Runner Ducks ...	1,500
Pullets reared annually ...	15-20,000
Trap-nests in daily use ...	500

**Every Bird on the Farm is WHITE.**

**BE PROGRESSIVE,**  
**FOLLOW SUCCESS,**  
**AND SUCCEED.**

Correspondence invited—

**WILL BARRON, The Bartle Poultry Farm, Bartle, nr. Preston.**

Telephone: 115 Ashton-on-Ribble

## TETNITE

(TRADE MARK)

❖ **FISH MEAL** ❖

**The Great Egg Producer**

Guaranteed Analysis.

**55/60 per cent.**  
**ALBUMINOIDS.**

**16/20 per cent.**  
**PHOSPHATES.**

Min. Oil and Salt.



TETNITE Fish Meal is a pure white fish meal of superior quality, and is a proved food of the highest value for producing an abundance of Eggs.  
 Supplies can be obtained with a special discount through the S.P.B.A.

With every order a copy of Tetnite Feeding Pamphlet will be sent free.  
 21/- cwt., 13/- ½ cwt., 7/- ¼ cwt.  
 Carriage paid to any station in Gt. Britain.

**TETNEY OIL & MEAL Co., Ltd., Leadenhall House, London, E.C.3.**

Works: GRIMSBY.

All orders to London.

## GALVANISED CORN BINS.

1 cwt. 8/6 2 cwt. 14/- 3 cwt. 21/-  
 4 cwt. 26/6 6 cwt. 35/- 7 ½ cwt. 41/-  
 3 BINS OR OVER, 5% OFF LIST.

All Bins have hinge lids. All Goods Carr. Paid.

**W. HUDSON, Sheet Metal Works,**  
**Patricroft, LANCs.**

If you get them from "HOMELAST" it means SATISFACTION!

**ANCONAS, and THE ADJUSTABLE TRAP-NEST FRONT**  
 (Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

**VICTOR P. WILLIAMS,**  
 Homelast Poultry Farm, BEXHILL, SUSSEX  
 A Small Farm with a Big Reputation.

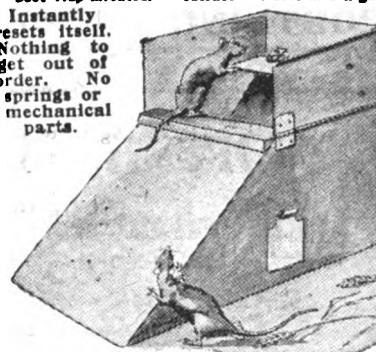
**Hastings Sheet Metal and Poultry Appliance Works,**  
**HUGHENDEN ROAD, HASTINGS.**

Awarded Certificate of Merit and Highly Commended as an Improved Rat Trap at Sussex Agricultural Show.

**THE EVER-READY RAT-TRAP.**

Best Trap invented. Catches Rats in a Night.

Instantly resets itself. Nothing to get out of order. No springs or mechanical parts.



No adjustments. Simple and effective. Made of strong Galvanised Iron. Patent applied for. 8490/22. Free on Rail.  
 Size for Rats, each 24". Ditto for Mice, 5/6  
 Liquid for putting on Bait, 1/- per bottle. Cash with order. Makers of all Poultry Appliances. Write for our Price List.

**WHITE LEGHORNS,**  
**TOM BARRON.**

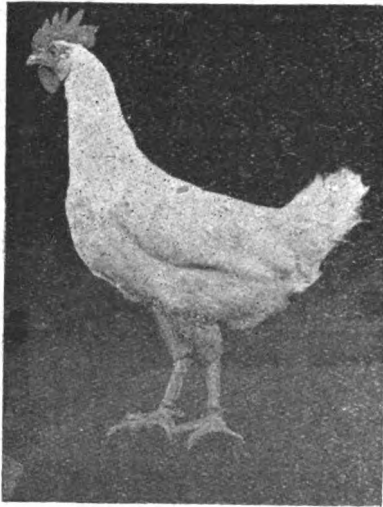
EGGS. CHICKS. STOCK BIRDS.

From 5/6 doz., 10/6 doz., according to age. Always the lowest price, consistent with Highest Value.

**Capt. H. OSCAR PERKINS, M.S.P.A., M.N.U.P.S.,**  
**The Poultry Farm, Teadring, ESSEX.**

## The Misses RANSFORD.

WHITE  
LEGHORNS  
ONLY.



ALL BIRDS  
TRAP NESTED  
AND KEPT  
ON  
FREE RANGE.

"Lady Bountiful IV." record 278 24oz. eggs  
in 12 months, 311 in 58 weeks. Dam, Lady  
Bountiful III., 269 12 months; sire, son of  
470 in two years' hen.

Our Strain of White Leghorns is founded on Lady Bountiful I.: 541 in two years.

Direct Descendants are:—

Lady Bountiful II.: 687, 3 years. Lady Bountiful III.: 269, 12 months.  
Lady Bountiful IV.: 311, 58 weeks.

Flock Average for the last three years over 200 eggs.

List of Pedigree Cockerels from Individual Hens, Post Free.  
1923 Catalogue after Christmas.

**Perseverance Poultry Farm, Pensford, nr. Bristol.**

## A. & H. LUMB,

Breeders of Heavy Layers  
and  
Large Eggs.

Well-grown Pullets and Cockerels for Sale.

List free on request.

**POSTLING**

**HYTHE, KENT.**

## DR. J. H. BALDWIN,

**SPRINGFIELD P.F. WIMBORNE, DORSET.**

**ONLY THE VERY FINEST STOCK in**

**White Leghorns,**

**White Wyandottes,**

**R. I. Reds (s.c.)**

**Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.**

## DON'T KEEP POULTRY, BUT LET THEM KEEP YOU.

This Can Best be Done  
By Using

## THE "VENN-CARR"

Patent Poultry Specialities.

They will then not only keep you  
themselves, but also look after themselves.

YOU MAY SEE HOW THEY DO IT

At OUR STAND No. 123 (Gilbey Hall)  
at the

## DAIRY SHOW.

Where a pen of fowls may be seen

operating the  
"VENN-CARR" Automatic Dry Nest  
Hopper (Pat. No. 181281).

"VENN-CARR" Corn Feeder and Scatterer  
(P. Pat. No. 32836/21).

"VENN-CARR" Drinking Fountain (Pat.  
No. 185684).

"VENN-CARR" Trap Nest Front (Patent  
applied for).

POULTRY HOUSES, PIGGERIES, SWED.  
FOODS, Etc.

They save TIME, FOOD, LABOUR.

TIME is MONEY, invest in it at once by  
using our Appliances.

They cut Feeding Costs 25 per cent.

Send for Catalogue, Post Free.

## VENN CARR, Ltd.,

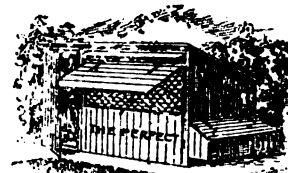
Maidstone Poultry Farm Appliances Works

MAIDSTONE Phone: 52.

Please Note.—All our Patent Specialities  
are fully protected in Great Britain and  
the principle countries of the world. Pro-  
ceedings will be taken against persons in-  
fringing our Patent Rights by making,  
causing to be made, or using, selling, or  
causing to be sold, goods covered by our  
Specifications.

## THE "PERFECT," 6' x 4' x 4'.

Is the house you must have to obtain maximum  
production during winter months, and is also the  
Fancier or Breeder's Pen. Constructed of  
matching, with lifting or sliding shutter.



House is a  
book to  
farmer or  
backyard.

The HOUSE is  
Excellence at  
TIMBER COST

L. W. H.	Price.	Roof Felted.	Fl. & Joists.	Painted with Solignum.
6' x 4' x 5'	£2 12 6	4 6	12 6	1/6
6' x 5' x 5'	£3 7 6	5 6	15 0	
8' x 5' x 5'	£4 10 0	7 6	17 6	in f.
10' x 6' x 6'	£7 10 0	10 6	30 0	F.O.R.

3 or 4 Outside Nest Boxes, 11/6 or 15/- S. e. Cat. other  
sizes and types.

**HENRY BROS.** Blackbridge & Wells St.  
Camberwell, S.E. 5.

## Pedigree Utility Stock Cockerels and Pullets.

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
REDS.

Pedigree Stock Cockerels a Speciality.  
Bred from individually recorded L2  
Hens, with high winter records. All  
Stock is sent Carriage paid and on  
full approval.

Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.),  
THE WOBLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.



# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

### Corrugated



### Roof Sheets.

Best Sheets for Walls, Partitions, &c., Easily and Economically Fixed  
PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

### The British Fibrocement Works, Ltd.

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

Telephone: ERITH 89.

London Office: Central House, Kingsway,

Telephone: GERRARD 6483.

W.C. 2.

Birmingham Office: 14, New Street.

Telephone: CENTRAL 7292.

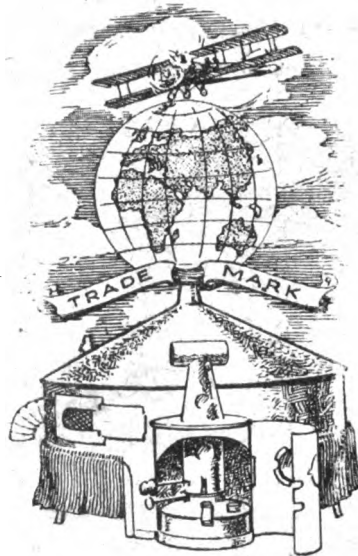
Also at Glasgow, Swansea, Dublin and Belfast.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.

Telephone: BRISTOL 272.



Patent No. 172434.

### A Striking Testimony—

## "UNIQUE" HOVER DEFIES THE ELEMENTS.

Remarkable Letter from Poultry  
Farmer:—

Brook Vale Poultry Farm,  
Rhodes,  
Middleton,

March 21, 1922.

Dear Sirs,—

I am writing to let you know what good results I have had from your "Unique" Chicken Hovers. I placed two of these in a Brooder House containing 300 Chickens, and on Saturday night, March 5th, we experienced a very strong gale, in which my Brooder House was blown down, leaving the two Hovers on the ground. The wind blew the chaff from under the Hovers, and to my surprise neither of the lamps was blown out. If they had been the entire brood would have been starved to death. I am satisfied the "Unique" Hovers are the very best on the market, and are all your advertisement claims them to be; they fully deserve the motto, "Second to none."

Yours faithfully,

(Sd.) WALTER FOSTER.

CATALOGUE FREE.

### The H.C.B. Poultry Appliance Co.,

Willow Bank Farm,

LITTLE MOSS, ASHTON-under-LYNE

### Miss W. E. CLARK,

**RHODE ISLAND REDS  
WHITE LEGHORNS  
KHAKI CAMPBELL DUCKS**

The Den, Headley, HANTS

## LAVALEIN PUXLEY,

Windyridge Egg Farm,  
WOODCOTE, OXON,

Offers for Sale:—

Best White Wyandotte Pullets, dam's  
ter records 40-90 (trap-nest), sires, S.  
J. Parsons' Special Pen. Early March  
ds. Splendid Winter Layers. 12/6 and  
each. Reduction on Quantity. Also:  
oder House, of excellent design, made  
h Asbestos Sheets, solid wood floor,  
ivy timber, with Hearson's 1,000-Egg Size  
oder Stove. A thoroughly reliable  
rearer.

£35, Carriage Paid.

Size 12 x 9, Apex Roof 6ft.—9ft.

## White Leghorn Breeding Hens

Exceptional Opportunity of obtaining  
rst Class Pedigree Utility Stock for next  
Breeding Season.

Having had a particularly successful rear-  
ing season, room is wanted for pullets.

YEARLING HENS, 7/6 EACH.

1920 HENS, 5/- EACH.

METCALFE STRAIN.

All birds are in splendid condition, have  
ad no illness whatever, and are proved  
Winter Layers.

ver 1,000 White Leghorns, the very best  
only kept on this farm.

Orders now taken for Eggs and Day Old  
Chicks for coming season.

### Woodcote House Egg Farm,

WOODCOTE, OXON.

## Uniform Excellence.

All other pens in the National Test con-  
tained at least one bird that laid less eggs  
than the worst

**KHAKI-CAMPBELL**

in the Abacot Pen No. 21, which

**LED ALL BREEDS FOR  
FOUR WINTER MONTHS,**

and finished with an average of 218.

A FEW Breeding Pens of Three Ducks,  
closely related to Pen 21, with Drake from  
unrelated winners, typical birds of good  
colour, with small white bibs.

£7 7s. 6d. Per Pen, Carriage Paid.

### OSCAR GRAY, Ltd.,

Abacot Duck Ranch,

**FRIDAYWOOD, COLCHESTER.**

## BRISTOL'S First ANNUAL

ALL

## UTILITY POULTRY SHOW.

November 8th and 9th.

**DRILL HALL, OLD MARKET STREET,  
BRISTOL.**

Judge, Mr. L. G. PRICE, C.I.P.K.

**Entries Close November 1st.**

PRIZES, 12/-, 6/-, 3/-. ENTRY FEE, 2/6.

Schedules from Messrs. Heaman & Norman,  
29, Sloane Street, Whitehall, Bristol.

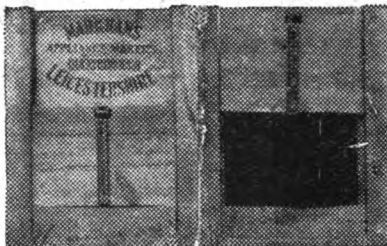
**"UP-TO-DATE" BOXES**

(WOOD) FOR EGGS AND CHICKS.



Used by  
all successful  
Poultry  
Farmers.

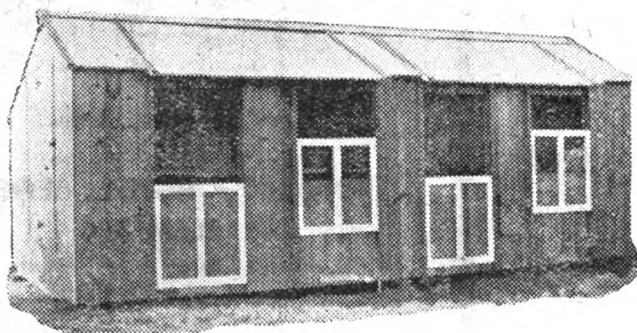
They have been passed by the Railway Companies as suitable for sending eggs at Company's risk. Fully illustrated Price List free on request.

**The "MARKHAM" Trap-nest Front**

The Simplest and Surest on the Market.  
Never fails to work.  
Singles, 3/6, Sets of Three, 10/6. Carr. paid.

**THE "QUENIBOROUGH" HOUSE.**

Size: No. 3, 16ft. x 8ft. x 6ft. 6in.



Complete with  
movable D.-B.  
Perch, Nest  
Boxes, Roof  
Felted. Outside  
treated preser-  
vative. Sliding  
of push-out  
windows.

Price: £14 10s.

Floor, 50/-  
extra.

Carriage Paid.

Five per cent. discount on all Goods to S.P.B.A. Members.  
Send for Free Illustrated Catalogue of our Noted Poultry Houses, etc.

**W. & T. MARKHAM, M.S.P.B.A., Dept. A.****- - QUENIBOROUGH, LEICESTER - -****NOW READY.****The Harper Adams Agricultural College  
AUTUMN POULTRY CONFERENCE.**

The Full Report of the  
**SIXTH ANNUAL POULTRY CONFERENCE**  
is now ready, and will be forwarded post  
free.

All papers are given in full, and there is a  
full report of the discussions.

Included in the Report:—  
**Professor PUNNETT on**  
**PROBLEMS OF BREEDING.**

**Mr. TOM NEWMAN:**  
**PRODUCTION AND NUTRITION.**

**Mr. LESTER SPURGEON:**  
**COMMERCIAL EGG FARMING.**

**Capt. E. T. HALNAN:**  
**PROBLEMS OF NUTRITION.**

Papers are also included on Diptheritic  
Roup, The Application of Electricity to  
Poultry Farming, Methods of Housing,  
Incubator Construction, etc., etc.

Price, 2/6. Post Free.

Apply—

**THE PRINCIPAL,**  
**The Harper Adams Agricultural College,**  
**Newport—Salop.**

**TESTIMONIAL.** Heysham Golf Club. To  
Mr. John Purchon, Jan. 12, 1922. Dear Sir,  
—After trying various ways of clearing rats  
from our premises without success, pur-  
chased two of your "Perfection Rat Traps,"  
and gave them a trial. After using a short  
time we are now clear of the pest. I can  
thoroughly recommend the trap.

G. H. TOWNSEND.



The Trap That Really Does Catch Rats. No  
danger to any domesticated animal or bird.  
Can be set anywhere and left set any  
length of time. Guaranteed to catch rats if  
there are any. Strongly made, lined with  
tin, easy and safe to set. Price, 12s. 6d.,  
cash with order, carriage paid. (Four days'  
approval). (Trade supplied). Patent applied  
for, 25417, Sept. 26th, 1921. Sole Maker:  
J. PURCHON, 140, Westminster Road, More-  
cambe.

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20—21 Bantams. Wyandotters.

**LAKENVELDER.** Sumatra, Polish, Ply-  
mouth Rocks, and all other Varieties.  
Also all kinds of Water Fowl, Fancy  
Pheasants, White, Black Winged Blue and  
Specifer Pea Fowl, Partridges, etc. Send  
Threepence for Reply. Orders booked  
now for Eggs.

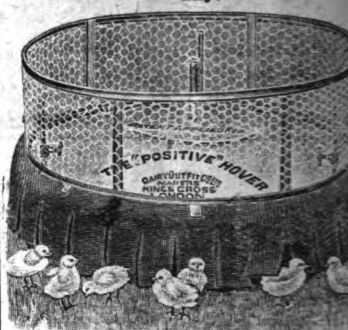
**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.

**The "STANDARD" INCUBATOR****The PERFECT HATCHER**

Saves loss and worry. Works au-  
tomatically.  
Electric Light fitted for inspection  
Eggs, and Thermometer.  
Chicks removed from Dry Box Nur-  
sery without exposing eggs.

**The "POSITIVE" HOVER**

(Patented).  
Eclipses all others. No lamp,  
stove or smoke pipe. Regular Hatching  
without Risk. Simple and Eco-  
nomical. Refill with carbon fuel one  
day.



Capacity up to 100 Chicks.

**Price 60/-**

Write for List:—

**DAIRY OUTFIT CO., LTD.**  
**King's Cross, LONDON, N.**

**"ZENITH TRAP-NEST"**

As used by the Large Poultry Keepers  
Also in the Premier Laying Competitions

FRONTS, 3/6 each, carriage paid

**WIGNALL,**

Poultry Appliance Builder,  
LONGTON, Near PRESTON.

**POULTRY AND DUCK HOUSES**

Highest Award at Welsh National  
Agricultural Show.

Built with 3in. Rebated Preserved W.  
Boards, in sections, to bolt together.  
Ruberoid Felted Roofs.

Cheapest Efficient Houses on the Market

**Stroud Green Poultry Farm**

M.S.P.B.A.,

STONEHOUSE, GLOS.

# The CHAMPIONSHIP 1918-1919. BENTLEY 1921-22.

Has again been won by the White Leghorns belonging to  
**Miss N. H. BELL,**  
**Ightham, Kent.**



Miss N. Bell, of Ightham, Kent, who has been using Salubrene says:—

1. The egg laying "is good—in fact better—than in other years."

2. Although "no outside blood has been brought in and no change has been made in the feeding beyond the addition of a small quantity of Salubrene, yet the pullets are decidedly larger than those of previous years."

3. "As the breeding pens had Salubrene there is also the possibility that the embryo chick was more vigorous"

In the competition just closed Miss Bell's birds, after being comparatively low on the list for some months, quietly came to the front in the last lap, and gained a meritorious win through sheer stamina and staying power.

Now it is well worth noting, and inwardly digesting, that both these birds and their parents had the vitamine forming mineral food **SALUBRENE** added to their food, with the result that at the critical stage of the test the skill of the breeder found itself so well aided by accumulated resources of vitality and energy, that her birds came right through their competitors and won on the post.

Everybody is now talking, arguing, using or *trying to manufacture*, mineral salt preparations, but there is only one of any real value and Nature is its Manufacturer.

It is evident that **SALUBRENE** can help to do BIG THINGS; little things don't much interest the people who are responsible for it. Let it help to do Big Things for you.



Corn Merchants keep Salubrene in packets at 1/3 each.

We recommend you to purchase locally wherever possible, but if your local dealer has not a stock of Salubrene (please send us his name and address) we will supply either of the following direct, carriage paid, cash with order.

**7 lbs. for 6/-**

Carriage Paid.

**28 lbs. for 20/-**

Carriage Paid.

A month's supply for 20 birds post free 1/6

Full instructions for feeding Salubrene to chickens, layers and breeding pens free.

Successful Poultry mashes for all purposes free for card.

Write to—  
**THE  
ALGIN COMPANY, Ltd.,**  
(Desk E),  
12, Norfolk St., Strand,  
London, W.C.2.

Cheques and Postal Orders should be made payable to The ALGIN COY., Ltd., and crossed "Barclay's Bank."



**To all Members of the S.P.B.A.**

and others who have not yet tested the magnificent results to be obtained from the regular use of "Bycolla" for feeding Poultry. Do not hesitate in applying at once to your dealer for a sample bag.

"Bycolla" aids the health and stamina of the birds, insuring a permanent increase in the egg output without impairing future welfare.



**CONVINCING TESTIMONY.**

**READ THE FOLLOWING LETTERS—**

"I am glad to be able to report that the last ton lot I purchased as a trial lot, has proved very satisfactory. Indeed, increasing the egg yield by about 9 per cent., and the young stock has thrived wonderfully since using it."

"I beg to inform you that the experiments I carried out with the sample cwt. of your fish meal, have given satisfactory results."

# BYCOLLA

REGD

**CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL.**

**SPECIAL REDUCTION IN PRICE.**

Terms: Cash **NOW** <sup>EXSY</sup> **26/-** <sup>per</sup> **Cwt.** <sup>Bags Free.</sup> Carriage Paid. England and Wales.

Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Also Sold by Dealers in 7lb. Bags. Price 2s. 3d.

**BICOL LTD., HOPE STREET, GRIMSBY.**

BYCOLLA is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a 1d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spices, should be given.

NOTE.—Not more than 10 per cent. of Bycolla should be added to each mash to ensure best results.

The Analysis of Bycolla shows a very high proportion of Food Units, viz.: 154, as follows:—Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum



## RHODE ISLAND REDS (s.c.)

**A Pedigree Laying Strain, Non-Broody and Good Colour.**

No. 37—A Wonderful Hen, who moults easily, always Hardy and Healthy, all her eggs hatch Strong Chicks. She holds the greatest record proved by the trap-nest of any breed of fowls—291, 277, 244, 233, and 195=1240. Eggs, 2 and 1/8th to 2 1/4 ozs. in five years.

Two daughters of No. 48 have laid over 300 Eggs in pullet year. Two grand-daughters of No. 37 have laid 312 eggs each.

Only very few March and April Cockerels to spare from No. 37. All Pullets sold out for 1922. Splendid coloured Cockerels from other best hens for sale. Send for List.

**1923 LIST OF SITTINGS AND DAY-OLD CHICKS READY SHORTLY**

**E. C. B. BOUCHER,**  
**THE HEATH HOUSE, CHEDDLETON, Near LEEK.**



# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution  
Prices—1 cwt. parcels, 21/-; ½-cwt. parcels, 13/-; ¼-cwt. parcels, 7/-  
Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.  
Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.  
(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.).  
15, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 60 WHITE LEGHORNS 1922 PULLETS.

For Immediate Disposal.

April hatched. Cam-Darracott strain. Will make splendid birds, and should commence laying towards end of month.

18/- Each, or £50 the Lot.

Carriage paid. Approval against remittance or deposit.

Crates to be returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.  
QUENIBOROUGH, near LEICESTER.

## ROUP, GAPE, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

### Mr. Cecil L. Byrne,

Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

# FLUID IZAL POWDER

## DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A little IZAL POWDER dusted amongst the Feathers instantly kills the Birds of FLEAS, LICE and such Parasites.

IZAL FLUID.

8/- per Half-gallon. 10/- per Gallon.

At all Chemists.

IZAL POWDER.

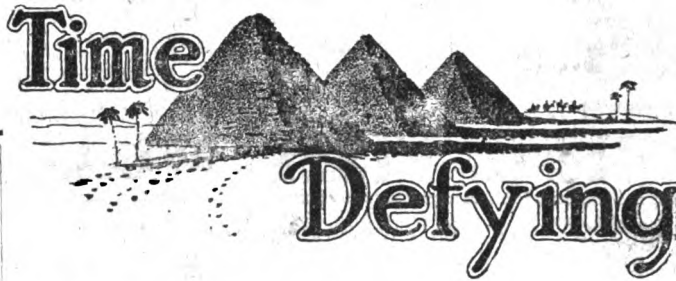
7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.





POULTRY - KEEPERS, one and all, far and near acknowledge and respect the supremacy of

## CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

### Consistent Success

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

WHITE LEGHORNS,

WHITE WYANDOTTES.

**EDWARD CAM,**

THE GLEN POULTRY FARM,  
HOUGHTON, nr. PRESTON, Lancs.

PRICE  
LIST  
UPON  
REQUEST.

*Satisfaction  
Guaranteed.*

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922 PULLETS	from	40/-
1921	"	12/-
1920	"	10/-
1919	"	6/-

Specially Selected Cockerels  
from 6/-

\*Phone:—  
6 Chaddeworth.

Grams:—  
"Sonimor, Leckhamstead."

# EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

OUR POPULAR  
— PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

**TOM BARRON**

Catforth Poultry Farm, nr. Preston

HIS  
WHITE WYANDOTTES  
and WHITE LEGHORNS  
are unbeatable as layers of  
large eggs, and plenty of them.

Send 11d. stamp for Catalogue and list of Prices. Fully illustrated, it is worth having.

### WHO SERVES BEST.

Advertisers are kindly requested to forward their Copy at once for the S.P.B.A. ANNUAL REGISTER.

"An Egg in Every Ounce."

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England

**ROSSLYN & Co.,**

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note : OUR FOODS CONTAIN COD LIVER OIL.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ...	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ...	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ...	17 6
Alfalfa Meal ...	22 0	Kibbled Maize (Screened) ...	14 6
Green Clover Meal ...	18 0	Rearall 1st Chick Feed ...	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ...	21 0	Thryvon 2nd Chick Feed ...	22 0
Meat Meal (65 per cent. Alb. and Fat.) ...	23 0	Matua Chicken Mixture ...	20 0
Chick Rearing Meal (Special), impregnated with 12 per cent. Cod Liver Oil (no milk required) ...		Yeast ...	19 6
			20 0

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
Mr. BRUCE WILCOCK, A.P.F.D.,  
as our Poultry Expert. Should you be in  
any difficulty we will be pleased to assist you.  
Our information bureau is free to all.

# E. DIXON & SONS, ST. ALBANS, HERTS.

## J. McLAREN,

The Beeches Poultry Farm,  
Ramsbury, Wilts.

Specialist Breeder of Selected  
PEDIGREE STOCK.

White Leghorns. Rhode Island Red.  
Black Leghorns. White Wyandottes.  
Light Sussex.

My Birds are all Trap-nested, and stock  
carefully selected for Egg Production,  
Stamina, and Fecundity.

My Speciality:

Eggs for Hatching: Day-Old Chicks.

STOCK BIRDS IN SEASON.

Prices and Particulars on Application.

## C. L. & J. A. THOMSON

Offer a few Selected 1922 Hatched Pullets,  
related to their pen of Light Sussex that  
were

1st at 1921-22 Midland Laying Test

the severest Test of the year, proving the  
stamina of our stock.

Can also spare a few WHITE WYAN-  
DOTTE 1922 Hatched Pullets.

Prices from 15/- each, carr. paid

**BERSHAM, WREXHAM.**

Samples of our

## CHAMPION POULTRY FOODS for EGG PRODUCTION.

Can be Inspected at our

# STAND No. 165 (GALLERY)

at the

## DAIRY SHOW,

where we shall be pleased to see our  
friends, and solicit enquiries.

If unable to attend write for Samples and  
Price Lists to:—

## Wm. Brinkler & Sons, Ltd.,

Poultry & Pigeon Food Dept.,

5, CLAPHAM GRANARIES,  
LONDON, S.W.4.

Telephone: Battersea 211.

## Mrs. A. YOUNG,

M.S.P.B.A.

Breeder of

Australian Black Orpingtons, M.A.O.C.  
(Imported Direct.

LIGHT SUSSEX.  
BLACK and WHITE LEGHORNS.

DUCKS.

KHAKI-CAMPBELLS. COALEY FAWNS.  
INDIAN RUNNERS.

Sittings of Eggs. Stock Birds. Day-old  
Chicks.

Write for Particulars.

All Stock Trap-Nested throughout Pullet  
Year.

**BRAESIDE, ST. LEONARD'S,  
RINGWOOD, HANTS.**

## "UTILITY" TRADE POULTRY FOODS

Real Bargains until Parcels Cleared.

Special Offers to S.P.B.A.

	per cwt.	s. d.
500 bags Pure White Wheat Meal ...	12 6	
500 bags Best Sussex Ground Oats ...	15 0	
1000 bags Fine Biscuit Meal ...	14 0	
500 bags Best Quality Fish Meal ...	15 0	
1000 bags Maize Gluten Meal ...	12 6	
500 bags Maize Germ Meal ...	11 6	
1000 bags Best Mixed Fowl Corn ...	12 0	
500 bags Heavy Clipped Oats ...	11 0	
500 bags Dark Seed, Red 10/-, White ...	11 0	
250 bags Manitoban Feed Wheat ...	10 6	
200 bags Light Wheat, Good Value ...	8 6	
100 bags Vegetable Charcoal ...	14 0	
1000 bags Special Laying Meal, con- sisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal ...	16 0	

F.O.E. Liverpool. Bags In. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL**

'Phone: 2586 Royal. Telegrams: "Emphatic."  
Established 1863.

# 1922 PEDIGREE LAYING PULLETS.

On One Month's Approval.

**RHODE I. REDS**  
(Boucher's) March  
and April hatched,  
Dam's records 240-  
271. Sire's Dam 291.

**WHITE WYAN-  
DOTTES** (Barron's).  
290-257. Sire son of  
Wilson Beattie's  
Snowball.



**WHITE LEGHORNS**, Dams 250 upwards,  
sire's dam, Gilpin's 293-egg hen.

15/-, 21/- and 25/- each. Satisfaction  
Guaranteed.

Dept. C, **GRAY POULTRY FARM, Ltd.**,  
Sidcup, Kent.

## THESE ARE STRAINS OF QUALITY

Buff Rocks, Rhode Island Reds,  
White Wyandottes, White Leg-  
horns, Aylesbury and Runner  
Ducks.

**CAPT. R. C. BEATTIE**  
Riverside P.F. Totnes, S. DEVON.  
TRAP-NESTED PEDIGREE STOCK.

## Your Chance!

My **BUFF ROCKS** LAID IN NOVEMBER,  
DECEMBER, JANUARY, FEBRUARY,  
MARCH, inclusive, an average of

**108 2oz. EGGS per BIRD,**

The two Best Birds laid 117 each. That is  
only five months' laying, and I trapped the  
birds myself all the time. You should not  
miss this

## OPPORTUNITY

To obtain such Splendid Blood. Only six  
Cockerels left. 30/- each. Now booking.

**EGGS** MATING  
LIST  
FREE. **CHICKS**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 23lb., 3s. 6d.; 2 5s. 9d.;  
3 8s. 6d.; 5 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY

4in x 4in. T.G.B.	7s. 6d.	4in x 5in. Saw'n Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	4in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
4in. x 5in. T.G.B.	11s. 6d.	2in. x 1in. Battens	6s. 6d.	2in. x 4in. Battens	16s. 6d.
4in. x 5in. T. & G.	13s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 5in. Battens	42s. 6d.
4in. x 5in. Saw'n Bds.	6s. 6d.	2in. x 3in. Battens	12s. 6d.	4in. x 5in. W'th'bds.	7s. 6d.

per 100 feet. OUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mills, SEAPORT.  
LIVERPOOL. Tel. 624 Waterloo.

## W. MASON, M.S.P.B.A., P.C.,

Littledale Poultry Farm, Halam,

NEAR SOUTHWELL, NOTTS.

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks. various  
ages, in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.), and Barred Rocks.

Inspection Invited. Cash or Deposit. Tel: 5073

**QUALITY,  
PRICE,  
DELIVERY.**

MAIN  
POINTS

SEND FOR SAMPLES AND PRICES

JOHN W. BEVANS & Co., Tangier Rd., Port...

## GET RESULTS LIKE THIS

Glenariff, Effingham Road, Surbison, September 16th, 1922.

"Dear Sirs,—I am very pleased with the result of 6 months' use of MILKO Laying Meal, the  
birds never tire of their food since I started using it. They have laid well all through the summer and  
I am now getting 9 to 12 eggs a day from 15 hens; last year at this time from the same number I had 5  
eggs a week. I brought all my chickens up on your chicken and growing meals, and have had most  
satisfactory results, fine birds, no sickness, no losses.—Yours, etc., MISS MABEL PATTISON."

The above is only one taken at random from dozens received every week.

MILKO Laying Meal is the food you should use regularly. Like all MILKO  
Specialities it is based on best quality milk powder, and carefully balanced  
by experts. MILKO foods are the original milk foods for poultry. They  
are used on many of the largest poultry farms in the country. They are  
free from spices and condiments. They do not force. A large egg yield all  
the year round is assured if you use this food daily, and your birds will  
always be in perfect health, and hatching and rearing results will be con-  
siderably improved. In short, MILKO foods give better results in every pos-  
sible way than foods based on fish or meat meal or other animal matter.

Prove our claims for MILKO Laying Meal by getting a supply right now.  
You will never regret starting to use this food, and we are sure that you  
will continue to use it always in future.

Note our low prices, all carriage paid. 1 cwt. 23/-;  
4 cwt. £4 8/-. Reductions on ton lots.

10 per cent, discount allowed to members ordering through the  
S.P.B.A.

## MILKO FOOD CO.,

(Dept. 2).

Fleet House, Fleet Street,  
LONDON, E.C.4.

TOOKTOOK" LAYING MEAL—

Thoro'bred Amongst Poultry Foods. An Absolutely  
Blend of those Meals calculated by experience  
be the most suitable for Heavy Egg Production;  
entifically Balanced, 97½ per cent. Digestible,  
atable, Easily Assimilated, and with an Albu-  
inoid Ratio of 1 to 3. Rich in Vitamines.

15/6  
per  
cwt.



"TOOKTOOK" DRY MASH, 16/6 per cwt.  
"TOOKTOOK" MIXED GRAINS, 16/6 per cwt.

ALSO

PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.

	per cwt.		per cwt.
	s. d.		s. d.
CRUSHED MAIZE	13 0	SPECIAL POULTRY OATS	15 6
SMALL MAIZE	14 0	FEEDING WHEAT	14 0
MAIZE CHIPS	14 6	SUSSEX GROUND OATS	20 0
MAIZE MEAL	11 9	WHITE FISH MEAL	18 9
GLUTEN FEED	10 6	FINEST MEAT MEAL	22 6

All Free on Rail, Greenock.

Terms—Nett Cash with Order. Complete Price List FREE.

**MACFARLAN, SHEARER & CO.,**  
POULTRY FEEDING SPECIALISTS, (Department 36),  
**GREENOCK, SCOTLAND.**

T WILL PAY YOU TO SEND FOR SOME OF THESE PULLETS.

White Leghorns, April, 1922, bred from Barron's Hens, with records 250-277, sired  
by son of 284 hen. 21/-, 25/- each.  
Rhode Island Reds, Golden, March, 1922, 25/- each.  
On Approval. Carriage Paid. Also other Breeds.  
The Dales Poultry Farm (W. B. Payne, S.P.B.A.), Syston. Leics.

The  
**S.P.B.A. BADGE.**  
Gold Letters on Blue  
Enamel.  
1/- post free.  
**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

**WATCH DOGS.**  
Cheap to Good Homes.  
PEDIGREE LABRADOR BITCH (House  
trained).  
LABRADOR AND COLLIE PUPS.  
Carriage Paid.  
**LADY ENCOMBE,**  
Beanby, Scotland.

START WITH GOOD STOCK!!

Our Stock of Highest Class Utility  
Poultry can be absolutely relied upon, as  
they possess Colour, Type, Size and  
Stamina, and are bred to lay a good-sized  
egg in paying quantities.  
We have upwards of 3,000 birds to select  
from, all bred and reared on our own  
farm, and they are in perfect condition.

BREEDS:

Light Sussex. Rhode Island Reds.  
White Wyandottes. Buff Orpingtons.  
White Leghorns. Anconas.

1922 PULETS - From 10/6 Each.  
1922 COCKRELS " 7/6 "  
1921 HENS " 6/6 "

All Carriage Paid, and Guaranteed to give  
entire satisfaction.

Managing Partner, **WILFRED HILL,**  
Ashgrove Poultry Farm,  
**ELLAND, YORKS.**

**Farnham Royal Open Show,**  
NOVEMBER 8th.  
Village Hall, Farnham Common  
**BUCKS.**

**POULTRY and RABBITS**  
Schedules and List of Prizes Ready.  
Apply Miss **GORDON BARRETT, Hon. Sec.,**  
Brockhurst, Farnham Royal, **BUCKS.**

FORGE BROTHERS' SPECIAL OFFER.  
1922 Hatched Pullets.

R.I. Reds (s.c.), four months old, 8/- each;  
nice combed pullets, large brown egg  
strain.  
White Leghorns, Black Leghorns, Anconas,  
3½ months old, 7/- each, from typical birds,  
layers of fine large eggs. Carriage paid on  
Six.

All these pullets are in the pink of con-  
dition, and are sure to give satisfaction.  
Money returned if not approved.

Catalogue, Photos Farm, Free.

Established 1901.

**UTILITY POULTRY FARM,**  
Eversley, Hants.

**PALMER'S PURE FISH MEAL.** As used by the Ministry of Agriculture, and also the "Daily Mail,"  
H.U.P.S. Bentley, Harper-Adams, and Munster Laying Competitions

**DAIRY SHOW.** Our Stand, No. 193, Gallery,  
where we shall be pleased to see our friends.

16 per ton, £8 2s. 6d. per ½ ton, £4 2s. 6d. per ¼ ton.  
Carriage Forward from Hull.  
22/- per cwt., 12/- per ½ cwt., 6/9 per ¼ cwt.  
Carriage Paid England and Wales and to Ports.  
FISH GRAINS THE SAME PRICE.

**CHICK FOODS**  
LAYING MEAL  
SUSSEX GROUND OATS  
PLINT  
LIMPET

**BISCUIT MEALS**  
WAFER MEAL  
PURE TONIC SPICE  
COCKLE  
OYSTER

OYSTER and MIXED SHELL.

Send a postcard for Samples and Literature to—

**GEORGE A. PALMER, (Dept. E.) WYKIN, HINCKLEY.**

## THE NEW "WOLLASTON" TRAP-NEST FRONT

(Patent applied for)

— IS WELL WORTH YOUR NOTICE. —

IT IS SO SIMPLE, EFFICIENT, and EASILY SET, can be used for Heavy or Light Breeds and is the CHEAPEST yet put on the market.

MADE, USED and PROVED for 3 Seasons on my Farm,

**SETS of SIX for 12/- per Set.**

Also SETS of SIX COMPLETE NEST BOXES with Trap-Fronts, Perches, and Wall Clamps (No Brackets Required) **30/- per Set.**

Carriage Paid to England and Wales, extra to Scotland, Isle of Wight, etc. ON APPROVAL.

Write at once to the Inventor and Sole Manufacturer—

**HAROLD A. HALL,**  
WOLLASTON HALL,  
WELLINGBOROUGH, NORTHANTS

## Mrs. MUMFORD,

N.U.P.S., S.P.B.A.

### Rhode Island Reds.

(CROWLEY BOUCHER.)

Eggs from these Birds won a Premium in the "Daily Mail" War Food Competition—Professional Class. Also First Prize, National Utility Poultry Show, 1921.

### White Leghorns.

(PADMAN STRAIN.)

### Light Sussex.

(RUNNER DUCKS.)

All Breeding Pens contain only Hens with High records headed by high fecund Cockerels.

NO PUPILS.

## Greenfield Poultry Farm,

LIPHOOK, HANTS.

# RADIANT

## BLUE FLAME BROODER STOVES.

NEW MODELS—Fitted with Double Asbestos Lined Hovers and Interchangeable Burners

MODEL

A.D. 3.

250 to 300 chick.

STAND 14 A.

DAIRY SHOW

MODEL

A.D. 2.

100 to 150 chick.

THE STOVE THAT REARED MORE HEALTHY CHICKS LAST SEASON THAN ANY OTHER

Write for Particulars.

Open Deliveries from November 15th.

## VITA

## ALL METAL.

A single action resets the Nest or locks it open.

### TRAP-NEST FRONT.

Prices	Set of 4	-	-	-	14/3	Carriage	Set of 12	-	-	-	38/6
	Set of 8	-	-	-	28/6	Paid.	20 and over	-	-	-	2/9 each

MANUFACTURED ONLY BY THE

## THORP RODERICK MFG. CO.,

32, BROADWAY, BEDFORD.



*If you would have*

# Less Work, Better Results, No Losses



WITH YOUR POULTRY

Investigate the FULL-O-PEP way  
at

## STAND 119

THE DAIRY SHOW,

*Gilbey Hall, Agricultural Hall, Islington, October 17-20.*

### The FULL-O-PEP Way

Is Based Upon

Dry Mash (one for growing, one for mature birds), one of which is always before the birds, and is such that they cannot over-eat of it.

Scratch feeds given once a day to adults and twice a day to those under eight weeks.

Feeds prepared by the world's greatest cereal experts, of guaranteed analysis; the result of years of scientific research.

A Laying Mash (Dry), which contains everything a bird requires, or would find for herself in the springtime when Eggs are plentiful.

Has Everywhere Been Proved

to produce more gain in weight on less feed than any other feed on the market.

to produce far more eggs and longer laying period than ever obtained before.

to prevent practically all losses and all chick mortality.

to be an enormous saving of time.

to give stamina and condition all round.

to have opened a new era in profitable poultry keeping.

*If you cannot visit the show write for a free copy of the Ful-o-Pep Poultry Guide & Calendar. You will at once be enrolled a member of our Free Advice Bureau.*

# FUL-O-PEP

POULTRY FEEDS

Quaker Oats Limited,

FINSBURY SQUARE, LONDON, E.C.2.

## The Adductor Poultry Gate Latch.

Patent No. 167918.

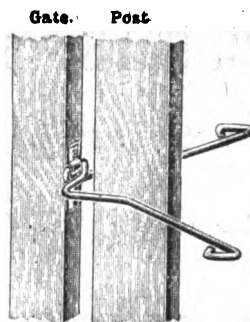
The Acme of Utility, Simplicity, Durability, and Cheapness.  
Used throughout the Country on Up-to-Date Farms.



Cannot go wrong or get out of order, and will last a lifetime.

**PRICE, 1/- each,**  
postage extra.

One, 4d.; Six or twelve, 1/-.  
Trade Supplied.



Space of 1in or more between gate and post.

Sole Manufacturer:

**R. O'H. P. THEOBALDS,**

*White Wings Poultry Farm,*  
**ST. MARY BOURNE, near ANDOVER.**

Breeder of Utility White Wyandottes from Tom Barron Strain direct.

Winner of First and Special Utility W. Wyandottes, Hen and Pullet, Newbury Fur and Feather Society, 1921.

Winner of First and Third, Newbury and District Agricultural Society, 1922.

# BUCKEYE

THE PERFECT INCUBATOR

See  
OUR EXHIBIT  
AT THE  
**DAIRY SHOW**  
STAND No. 25,  
Main Hall

Sole Selling Agents for the United Kingdom:

**W. B. FORDHAM & SONS, Limited,**  
(Dept. A) 36-40, York Rd., King's Cross, LONDON, N.1.

FULLY ILLUSTRATED PRICE LIST UPON APPLICATION.

# STANDARD

Colony Brooder

## VITAMEALO No. 2.

A Vitamin Food for Poultry,  
Geese, Ducks, and Turkeys.

**GUARANTEED to CONTAIN the ESSENTIAL VITAMINS** and secures—

- 1.—Increased Egg Production.
- 2.—Early maturity and rapid growth.
- 3.—Freedom from Diarrhoea, Tuberculosis and Leg Weakness.

Highest in Albuminoid—52%

Price, 22/6 per cwt. F.O.R. London

20% only should be used.

SOLE MANUFACTURERS—

## The Agricultural Food Products Ltd.

29, Bedford Row, London, W.C.1.

## Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the flock is housed. For maximum egg production the houses must be roomy, well-ventilated, drip and draught proof, and thoroughly stable even in the highest winds. Moreover, for operating on even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house.

but only in  
**SLADE HOUSES**

do you find them at a price which is economically sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter section's being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing anything of factory overheads the saving here will be obvious.

# SLADE

SYNDICATE, LIMITED,  
(Directors: E. J. W. and M. W. Slade),  
28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.

# SMASH FENCING PRICES.

*Here's Your Chance to Save Money*

**Grasp this opportunity now, it can never be repeated.**

WHEN you are building the fences round your new breeding pens why use the old style fine wire open mesh wire netting when you can build your fence with this marvellously strong steel wire mesh fencing at a lower cost? Don't use boarding or galvanised iron at the bottom of your fences—use steel wire mesh—birds cannot fight through it, and it breaks the force of the strongest wind. For a six-foot fence use steel wire mesh at the bottom and ordinary 3-inch mesh wire netting at the top, thus getting the cheapest, st and strongest fence on the market.

Steel wire mesh fence is rust-proof and guaranteed proof against all weathers, and it will last over twenty years without necessity of repair. Once the stock is sold similar material can never again be offered at this ridiculous price. So do not hesitate but order all you want **NOW**.

#### OTHER USES.

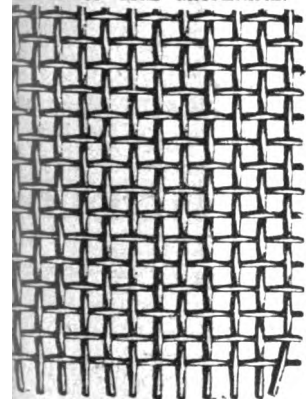
**FOR BROODERS.**—You can make Brooders absolutely rat and vermin proof by covering the bottom with this material at a cost of less than a shilling.

**FOR SITTING COOPS.**—You can give the birds the maximum of fresh air by using a front covered by this material, also making the coop rat-proof at a cost of a few pence.

**FOR BROODER-HOUSE FENCING.**—You should have rat-proof fences for your Brooder-house runs. There is nothing to beat this material; and at the bargain price of this material its cost is a mere trifle.

**FOR BROODER STOVE GUARDS.**—To keep your chicks safe from the fire you want a fireguard; the usual materials are of little use, but this material is unbeatable, making your stove absolutely fireproof at a cost of a few pence.

THIS IS THE MATERIAL.



## LOOK AT THE PRICE!

Rolls 70 feet long by 36in. wide, containing 200 super feet.

**20/- per roll.**

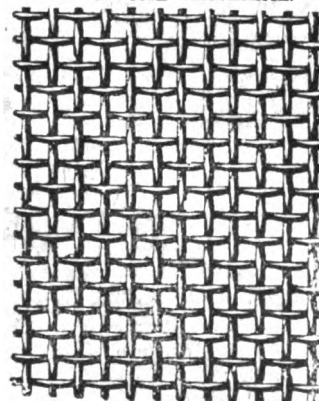
Rolls 100 feet long by 36in. wide, containing 300 super feet.

**30/- per roll.**

Free on Rail. Cash with Order.

**It is NOW or NEVER.**

THIS IS THE MATERIAL.



Note the closeness of the Mesh.

Illustration drawn exact size.

**A. E. W. PHIPPS,**  
Midland Works, No. 4 HARBORNE, BIRMINGHAM.

**MAJOR WHALEY,**  
M.S.P.B.A.—M.N.U.P.S.  
**Ashwell Poultry Farm,**  
— OAKHAM. —

Breeder of—  
**RHODE ISLAND REDS**  
S.C. Boucher and Golden.

**LIGHT SUSSEX**  
Cook's.

**WHITE LEGHORNS**  
Frank Snowden's Cam's.

**AUSTRAL ORPS**

**SITTINGS, 10/- to 20/-**  
**CHICKS, Double.**

Only L2 Birds and Hens that have  
laid 200 eggs and over, bred from.

Trap-nested all the year round.

Try us for your WET AND DRY MASHES.  
made to your own requirements.

We offer the following:—

	per cwt.	s.	d.
NEWMAN'S POULTRY MASH	15	0	
MIDDS	11	0	
BRAN BROAD	11	0	
BRAN ORDINARY	8		
MAIZE GLUTEN FEED	12	0	
SUSSEX GROUND OATS	20	0	
BISCUIT MEAL	22	0	
CLOVER MEAL	18	0	
ENGLISH CLIPPED OATS	16	0	
Special Line Best MEAT MEAL	21	0	

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**  
Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

**TO POULTRY FARMERS.**

Why Pay High Prices for Oyster and Flint  
Grits, when you can use GRITTO'S  
CRUSHED COCKLE "SHELGRIT" Alone?

IT CONTAINS SUFFICIENT QUANTITIES  
of LIME for SHELL FORMING, and is an  
EXCELLENT DIGESTIVE AGENT COM-  
BINED, being PURE LIVE SHELL ONLY,  
and ENTIRELY FREE FROM DUST or  
DIRT.

Buy the One Shell only, and  
save waste of double storage.  
And Cost of Buying TWO Expensive Grits.

LOWEST PRICES, ex-Warehouse, or F.O.R.,  
on application to

**GRITTO, LIMITED,**  
103, Southwark Bridge Rd., S.E. 1.



**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX**  
Station: PEVENSEY or BEXHILL.

**Exhibition and Pure-Bred Utility Birds**

**LIGHT SUSSEX.**—1st and Sp., Lewes. 1st and  
Redhill. 1st and Sp., Tunbridge Wells.  
Utility, Crystal Palace, etc.

**WHITE LEGHORNS.**—1st Redhill. 1st, Uckfield.  
Sussex Agricultural, etc.

**BLACK LEGHORNS.**—1st and Sp., Lewes. 1st  
County. 1st, Royal. 1st, Tunbridge Wells,  
etc., etc.

**TOULOUSE GEESE, AYLESBURY DUCKS.**

**COCKERELS:** 21/- to £3 3s. 0d.

**PULLETS:** 17/6 to £2 2s. 0d.

All Birds sent on Four Days' Approval.  
All Birds Trap-nested. Only L2 Birds bred from.  
Please note Change of Address, and when in a  
neighbourhood do not fail to visit our new 1840  
MODEL FARM. Write to-day for Free Illustrated  
Price List to

**MRS. HARRY KENT**  
**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX**  
Station: PEVENSEY or BEXHILL.

**TIMBER!**

T. G. and B. Boards.

1in. x 5in.	13s. 0d.
2in. x 5in.	10s. 9d.
3in. x 5in.	9s. 3d.
4in. x 5in.	10s. 0d.
5in. x 4in.	7s. 3d.

Plywood (Birch).  
3 M/M 59in. x 39in. 10s

**TIMBER!**

Good Quality  
Battens.

3in. x 6in.	38s. 0d.
3in. x 3in.	17s. 6d.
3in. x 4in.	24s. 6d.
2in. x 3in.	12s. 0d.
2in. x 2in.	8s. 0d.
2in. x 4in.	15s. 0d.
1in. x 2in.	5s. 0d.
1in. x 3in.	4s. 3d.
3in. x 2in.	2s. 6d.

ANY SPECIFIED LENGTH CUT.

All Prices per 100 feet, carriage paid on orders over £2.  
Please Send Cash with order, and also state nearest railway station.  
Good Quality Roofing Felt in Rolls, 12 yards x 36in., at 6s. 3d. per roll.  
FOR A SQUARE DEAL. SEND YOUR ORDERS TO

**STANLEY BARNES & Co., Timber Merchant**  
Phone: 2183 CENTRAL. **67, Dale Street, LIVERPOOL.**

**G. R. PINDER, M.S.P.B.A., N.U.P.S.**

Offers

A Limited Number of BREEDING HENS in  
WHITE LEGHORNS.  
WHITE WYANDOTTES.

All are Guaranteed to have L2 winter  
records of 45-60 large eggs, and have been  
bred since 1913 from the VERY BEST.

1920 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

**STOCK COCKERELS.** Now is the time to  
book a good bird bred from individual high  
record hen in W. Leghorns, W. 'Dottes.

R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.  
Lindsey Poultry Farm, Carlton, Louth, Lincs.

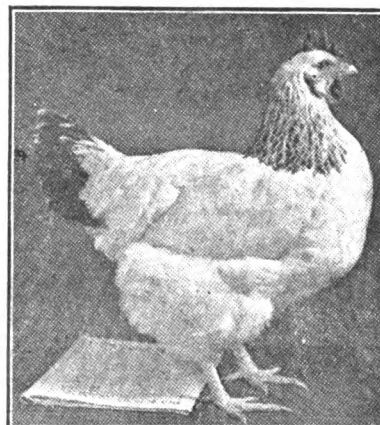
Here we are Again!

**BARGAINS in POULTRY FOOD**

Best White Wheat, 16/- per cwt.;  
Clipped White Oats, 14/- cwt.; Best  
Mixture, 13/6 cwt.; New Round Mixture,  
cwt.; Oyster Shell, 7/- cwt.; Grit, 5/6  
Sweet Clover Meal, 10/- cwt.; Complete  
ing Meal, 12/- cwt.; Best Fish Meal,  
cwt.; Best Meat Meal, 18/- cwt.; Best  
Dari, 12/- cwt.; No. 2 Fowl Corn, 12/6  
Middlings, 11/6 cwt.; Bran, 9/6 cwt.;  
Bone, Best Egg Producer, 15/- cwt.;  
Despatch. F.O.R.

MARCH 1922 PULLETS, 7/6.

**G. THISTLEWAITE, Corn Merchant**  
Wavertree Road, LIVERPOOL



**H. S. HODGES**

Knowle Poultry Farm,

**HEATHFIELD, SUSSEX.**

Oldest Strain of Sussex. Established 1850.

200 Light Sussex Pullets, all ages, from 12/-  
Cockerels and 1921 Breeding Pens.  
Speckled, Red, Brown, Sussex.

Mixed Pure Sussex Eggs for Incubation.  
£3 per 100.

12 March '22 Faverolle Pullets, soon laid,  
15/- each.

12 Ancona, '22, May Pullets, 6/- each.

70 White Leghorn Pullets, May, '22, hatched  
from birds from Frank Snowden's Test  
Pen, 15/- each for quick sale, to make room  
for Sussex.

# ESLIE WILLIAMS

## SECOND NOTICE.

**Y**OU will have seen by last week's notice that, in consequence of moving my Farm to Hampshire, I am selling a large number of Pullets, Hens and Cockerels at Mr. Golding's Poultry Sale Rooms, on Wednesday, October 25th.

**T**HE birds which will be for sale are all picked birds, and will be rung with my rings, and carry my usual guarantee. I am not sending any culls, and all birds included in the sale have been bred on my Farm from my stock.

**T**HOSE clients who wish for stock, personally selected by me, the following are my prices for stock despatched up to the Sale:—

1922 PULLETS	-	-	20/- and 30/-	Each.
1922 COCKERELS	-	-	15/- to 60/-	„
1921 HENS	-	-	15/- to 40/-	„
1921 COCKS	-	-	20/- to 50/-	„

**Present Address—**

**Easton, Grantham, LINCS.**

"Eggs" gives to Advertisers their goods a prestige and high reputation that no other location can give.

### FOR EGG PRODUCTION USE WYECOT™ DRY MASH.

15/- per cwt. £14 per ton.

is well-balanced Mash is prepared to formula as used by Capt. Frank Pison, A.B.S.A., S.P.B.A., Wyecot Poul Farm, Brook, Ashford, Kent, who has from experience it is a successful producer.

Free on Rail. Bags included.  
Cash with Order.

\* In last week's "Eggs" for prices of other Poultry Foods. Samples and prices free on application.

**HANCOCK & Son, (Dept. E).**  
MERSHAM MILLS, ASHFORD, KENT.

**Mrs. PIERCE-GROVE, M.S.P.B.A.,  
N.U.P.S., STOKE COURT.**

Breeder Utility White Leghorns and White Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pens.

FOR SALE.

**WHITE LEGHORN COCKERELS.  
WHITE WYANDOTTE COCKERELS.**

Early February and March hatched, splendid, well-matured, and vigorous birds, bred from my own well-known strain 1921 hens, mated to magnificent cockerels (proved splendid breeders), imported direct from Solly's famous egg farm in British Columbia. These cockerels guaranteed from dam 280 specially large eggs.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best 3,000 Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply to The Earl of Eltham, Stoke Court, Stoke St. Mary, Taunton.

# Large Eggs

**6 to the lb.**

FROM

## Bred-to-Lay Strains

OF

**RHODE ISLAND REDS  
(S.C.)**

**LIGHT SUSSEX**

**WHITE LEGHORNS.**

My COCKERELS, PULLETS, DAY-OLD CHICKS and EGGS FOR HATCHING are sent all over Great Britain. From SCOTLAND to THE ISLE OF WIGHT, and always give satisfaction. **BECAUSE** my birds have STAMINA, VITALITY and HEALTH and THEY DO LAY.

MY EGGS have "TOPPED" a Prominent Midland Market for over EIGHTEEN MONTHS.

**Inventor & Manufacturer of  
"WOLLASTON" TRAP-NESTS.**

**All enquiries receive personal attention.**

# Harold A. HALL

M.S.P.B.A.

**Wollaston Hall,  
WELLINGBOROUGH,  
NORTHANTS.**



# WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.

**BLACK MINORCA COCKERELS.**

**24 LIGHT SUSSEX YEARLING HENS, L2.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**

## Mrs. ALEC WILSON

OFFERS

For December Delivery

**White Wyandotte Cocks  
and Cockerels, also  
Pullets (now in lay)**

From her Prize-winning,  
Trap-nested Strains.

Write for Free Catalogue.

**Garth Wyandotte Farm,  
GARTH,  
— BRECONSHIRE. —**

## MINERAL SALTS

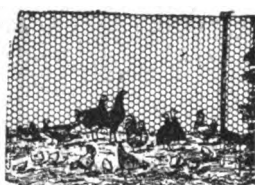
A high-grade mild aperient  
containing valuable Iron  
Tonic properties. For birds  
in the moult and for gener-  
ally toning up the system  
it has no equal.

In patent air-tight tins,  
2-lb. size, 2/6. 4-lb. size, 3/9  
CARRIAGE PAID.

The Cost is next to nothing—  
LESS THAN A FARTHING PER BIRD.

**ALBION THORPE & SONS,  
POULTRY FOOD MAKERS, RYE, SUSSEX**

## BEST ENGLISH GALVANISED



**Wire Netting  
OF SUPERIOR  
and GUARAN-  
TEED QUALITY.**

Heavily Galvanized.  
Direct from Factory.  
Made in Norwich,  
England. Greatly Re-  
duced Prices. £8 5s.  
lots carriage paid  
England and Wales.  
50 yard rolls.

Our netting rolls out straight and flat  
like a carpet. If prices are lower than  
ours, it is highly probable that it is  
Foreign and Inferior.

### Special Lines—

Prices strictly net. Sole terms—Cash with  
order.

mesh	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	gauge
1in.	9/-	16/4	23/2	30/11	38/7	46/4	20
2in.	5/6	10/-	13/7	18/1	22/7	27/1	19
3in.	4/-	7/2	9/10	13/2	16/5	19/8	19

Sheep Netting, 3-ply Selvages, 4 in. mesh, 16  
gauge, 36 inch, 15/8; ditto, with centre  
strand, 17/8. Special Galvanised Netting  
Staples, 3/6 per 1,000. Strong Wire Netting  
Pegs for holding bottom selvage to ground,  
1/6 per dozen. Galvanised Binding Wire,  
10d. lb. Best Wire Cutters, 2/6 pair. For  
all other sizes, gauges, and widths see  
large list, free. Special low quotations for  
best Galvanised Barb, Fencing, Strand and  
other Wires. Corrugated Galvanised Sheets  
and Accessories. Sanded Roofing Felt, no  
tarring required, 15 yds. x 1 yd. rolls, 5/6  
per roll, carriage paid 20 rolls. Wicks'  
Bros.' Famous Show Pens of guaranteed  
and superior quality, 27in. x 24in., 7/6, extra  
ends 2/-; 18in., 5/-, extra ends 1/6. Show  
Pen Fronts, with sliding doors, 27in. x  
24in., 2/6; 18in., 2/- Strong Galvanised  
Cups, 6d., 8d. and 1s. each. Wicks Bros'  
Advertising Line, the Poultry Keepers'  
Tool Set, containing eleven tools, including  
hammer, 2/- per set. All carriage paid.

**WICKS BROS.,** Wholesale  
Wire Works.

29, CATTLE MARKET, NORWICH.  
Phone: 1438. Contractors to H.M. Government.  
All prices subject to alteration without  
notice.

## DAIRY SHOW, AGRICULTURAL HALL, ISLINGTON.

OCTOBER 17th—20th.

STAND No. 14a (Arcade).

All visitors to the above should see our  
Collection of Up-to-Date Houses, including  
the noted "Hargrave" and "Modern"  
Designs. Also the "Radiant" Brooder  
Stove.

THE BEST ONLY.

Catalogues Free.

**JOHN GODFREY & Co., Ltd.,  
— STAMFORD. —**

## The 1923 Register and Year Book

OF THE

Scientific Poultry Breeders' Association

Only a short time now remains  
we go to press with the 1923 edition of  
Annual Register. Those firms and  
dividuals who have anything to sell to  
enthusiastic Poultry Keepers, who have  
already booked their space in the Re-  
should not delay further, because a  
limited amount of space available for ad-  
vertisement now remains, and the  
date is 25th October.

A copy of the Year Book is sent  
Member of the Scientific Poultry Breed-  
Association, each of whom is an enthu-  
out for the best he can buy and with-  
money to indulge in his fancy. In ad-  
a large number will be sold to Poul-  
Keepers throughout the country.

The rates are:—To MEMBERS: 1 p-  
24 0s. 0d.; Half Page, 23 5s. 0d.; Qu-  
Page, 21 5s. 0d.; Breeder's Card, 8s. 0d.  
NON-MEMBERS: One Page, 25; 1/2  
Page, 23 15s. 0d.; Quarter Page, 21 10  
0d.; Breeder's Card, 8s. 0d.

Communications respecting adver-  
tise-ments should be addressed to Mr. F.  
Churchyard, 94, Farncombe Street, Lon-  
don, S.E.16.

## MOORSWOOD POULTRY FARM,

HERONS GHYLL, UCKFIELD, SUSSEX

Proprietors: Mrs. James Hope & Miss A. Hope

Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poul-

Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

PULLETS from £7. COCKERELS from £1 10

A Limited Number of 1921 PULLETS at 12/6

ber 18th, 1922.

EGGS.

# The PROOF OF THE PUDDING!

17, Carnarvon Road,  
West Bridgford, Nottingham,

8th Oct., 1922.

Mr. J. Underwood.

Dear Sir,—  
I have much pleasure in enclosing statistics relative to the dozen day-old chicks which I received from you on April 16th, 1921.

Of the 12 chicks, 11 were reared to the age of three months, one being killed by accident when three weeks old. In view of these results I should like to purchase a sitting next Spring.  
Wishing you every success.

Yours faithfully,  
L. R. VYLE.

## SEVEN WHITE LEGHORN PULLETS.

Ring Numbers.	1	2	3	4	5	6	7
1921. September ... ..	13	12	4	—	—	—	—
October ... ..	27	29	23	12	15	14	—
November ... ..	23	25	21	4	22	17	4
December ... ..	22	25	16	21	20	19	23
1922. January ... ..	3	12	—	18	1	5	16
* February ... ..	—	2	—	—	—	—	—
March ... ..	17	22	25	25	13	18	21
April ... ..	22	27	28	30	27	24	25
May ... ..	25	23	29	28	28	24	27
June ... ..	24	9	24	28	29	21	25
July ... ..	22	19	26	29	26	24	24
August ... ..	21	22	28	28	19	13	26
September ... ..	18	17	4	17	9	10	15

\* Birds falling into partial moult account for poor display during February.

## Records from 23rd Sept. 1921 to 22nd Sept. 1922:

No. 1.	No. 2.	No. 3.	No. 4.	No. 5.	No. 6.	No. 7.
227	235	228	240	209	189	206

Yearly Total = 1534. Flock Average = 219.1.

## "The Farm that always Lives up to its Name"

FOR SALE WHITE LEGHORN HENS, 'COCKERELS AND PULLETS.'

## JACK UNDERWOOD,

S.P.B.A.

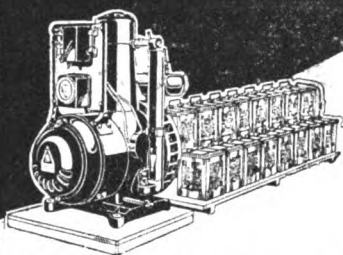
## The "Reliable" Poultry Farm, SUTTON BONINGTON, LOUGHBOROUGH.

Early-hatched s.o. R.I.R. Cockerels and Pullets from my Registered Pens. (headed by sons of Mr. E. C. B. Beucher's World Record Hen No. 37, which recorded 1045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,**

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

*Let Artificial Lighting in the Pen  
increase the laying power of your hens*



Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office:—75, Victoria Street, Westminster, S.W.1.

**ROBERT MILLER,**  
DENNY, SCOTLAND

AT STAND 132,  
DAIRY SHOW, LONDON.

His Exchequers,  
Peerless Houses,  
Incubators and Brooders

**The CENTRE of  
ATTRACTION.**

**Awarded Silver Medal**  
(Highest Award)

**FOR BEST POULTRY APPLIANCES**  
at Royal Lancs Show  
Last Month against all comers.

Beautiful Art Catalogue  
with Latest Reduced Price for 1923  
Post Free.

**1922 PULLETS.**

MAJOR HEAPS,

The Villa, Rosehill, Market Drayton, Salop.  
Has February-March Pullets for Sale.  
L. Sussex, W. Wyandottes, 15/- to 25/.  
W. Leghorns, April, bred from his "Daily Express" and S.P.B.A. Winners, 15/- to 30/.  
Cockerels of above Breeds from 20/.  
1921 Hens for Breeding Pens.

**Join the  
BEP  
LTD**

We sell  
the Eggs-You  
share the Profits

Join the  
**BRITISH EGG  
PRODUCERS LTD**

2 LINDSEY ST. SMITHFIELD  
MARKET E.C.1. and reap  
the benefit of co-  
operative marketing.  
Prospectus free on application

**JOHN A. BETTS,**

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

EGGS and STOCK BIRDS and DRAKES.

Eggs per doz., 6/., 100, 40/.. 1922 Cockerels, 15/.., 1921 Pullets, 10/.. White and Black Leghorn and Minorca 1922 Pullets, 7/6 to 10/.. Breeds kept; Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Sussex, R.I.R., Brd., Rks., Bl., W. and Brn. Leghorn, Buff and White Orpington, Aylesburys, Khaki-C's, Buff Orpingtons, and Runners (both colours).

**IF YOU LIVE**

Five thousand miles away, don't waste time—and ours—by writing us. Get your Goods nearer and save carriage.

But if you live anywhere in the W. England, these Prices should interest

New English Wheat .....  
New English Oats .....  
Clipped and Screened Oats .....  
Kibbled Plate Maize (Screened) .....  
Sharps .....  
Broad Bran .....  
White Middlings .....  
Pullet Mixture (from the Best Old .....  
Hard Grain) .....  
Poultry Corn .....  
Darl .....  
Maize Meal .....  
Maize Germ Meal .....  
Maize Gluten Meal .....  
Ground Oats .....  
Newman's Poultry Mash .....  
Flaked Maize .....  
Biscuit Meal (Graded) .....  
Biscuit Meal (Fine) .....  
Limestone Grit .....  
Cockle Shell .....  
Oyster Shell .....

Cash with Order. Bags Free. Cash Forward.

**FRANK SHEARN & Co.,**  
MIDSOMER NORTON, SO.

'Phone 51.

**"Poultry Foods and Feeds"**  
ALSO

**"Chicken Rearing,"**

BY

**TOM NEWMAN**  
Rudgwick, Sussex.

Price **6½d.** Each,  
Post Free.

TRAP-ESTING CARDS, 64 x 124 1/2  
1 doz., 1/3; 50 for 3/9; 100 for 6/6; 250 for 15/.

TRAP-NESTING RECORD BOOKS, 7/6 and 13/.

HATCHING RECORD BOOKS, 7/6 and 11/.

STUD BOOK FOR FOWLS, 6/6  
INCUBATOR RECORDS, 1/3 doz. per 100.

BACKYARDER'S COMPLETE RECIPE BOOK, 8d.

UTILIO ACCOUNT BOOK, 3/6  
LAYO ACCOUNT BOOK, 2/3

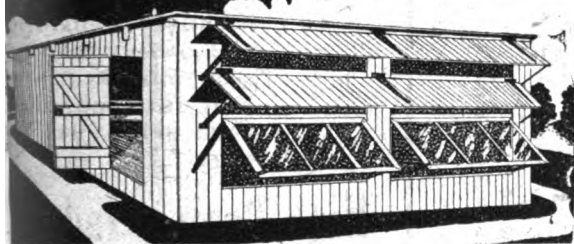
Specimen Rulings Free.

**RIPPIN & BAKER**  
The Newarkes, LEICESTER

# HEBDITCH'S POULTRY HOUSES

WILL SUIT YOU BEST, PLEASE YOU MOST, AND PAY YOU BEST.

## The "MARTOCK" Intensive House.

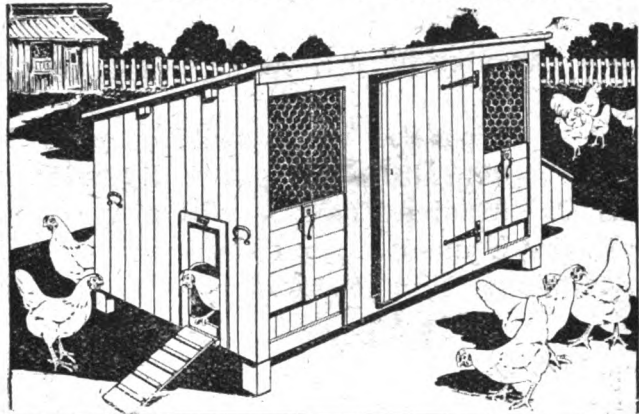


The "MARTOCK" is essentially a House for those who specialise in Winter egg-production. Made of 3 in. Red Deal Board. SIZE AND PRICES.

Height		Floor Extra.		For Fowls
Ft. Front	Back	£ s. d.	£ s. d.	
6	10	6 1/2	5	12 to 15
10	16	7 1/2	5 1/2	20 " 25
16	22	8 1/2	6 1/2	40 " 50
22	28	9 1/2	7 1/2	80 " 100
28	34	10 1/2	8 1/2	120 " 150
34	40	11 1/2	9 1/2	160 " 200
40	46	12 1/2	10 1/2	200 " 250
46	52	13 1/2	11 1/2	240 " 300
52	58	14 1/2	12 1/2	280 " 350
58	64	15 1/2	13 1/2	320 " 400
64	70	16 1/2	14 1/2	400 " 500
70	76	17 1/2	15 1/2	480 " 600
76	82	18 1/2	16 1/2	
82	88	19 1/2	17 1/2	
88	94	20 1/2	18 1/2	
94	100	21 1/2	19 1/2	
100	106	22 1/2	20 1/2	
106	112	23 1/2	21 1/2	

Carriage paid in England and Wales. Prompt Despatch. If pickled with Preserolium by immersion, 1/6 in the £ extra.

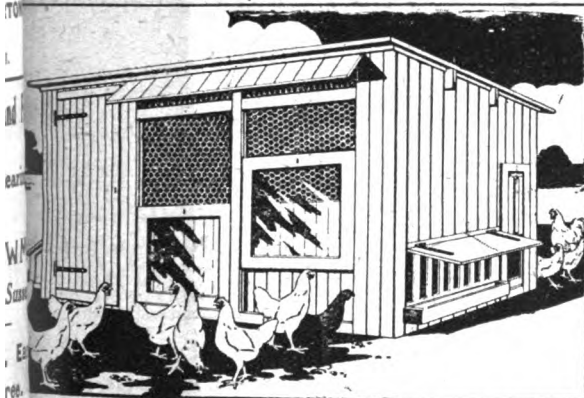
## The "DERWENT" Poultry House.



A compact and attractive Poultry House, raised 1ft. from the ground. It is built of best 3 in. planed, tongued, and grooved, and V-jointed Red Deal Boards, and provided with good press lock and key, strongly hinged door, up-and-down sliding shutters, two strong perches, and nest boxes. Sent out in sections, with screws for erecting. Size: 6ft. long, 4ft. wide, 5ft. high from ground. No extra charge for floor.

PRICE: £3 7 0. If with nests, £3 19 0.  
Carriage paid in England and Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/6 in the £ extra.

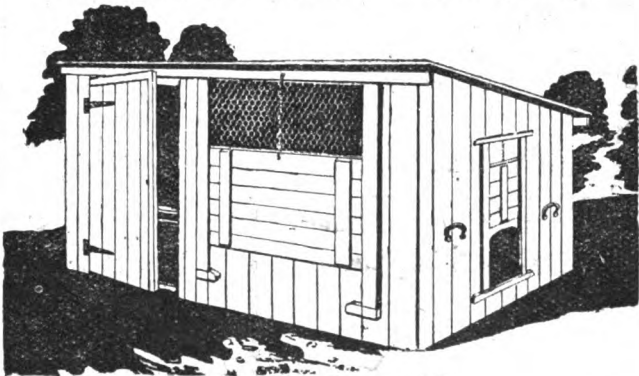
## The "EXCELSIOR" Semi-Intensive House.



of best 3 in. V-jointed, tongued, and grooved Red Deal. It is specially suitable for semi-intensive work, and is for this purpose used by thousands of poultry-keepers all over the country. It is provided with a strong perch the whole length of house and a wide dropping board below it. No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

PRICE: No. 1 £7 8 0. Floor 26/6 extra.  
PRICE: No. 2 £9 15 6. Floor 39/- extra.  
Carriage paid to any station in England or Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/6 in the £ extra.

## The "DREADNOUGHT" Poultry House.



6ft. long, 4ft. wide, 4ft. high.

The "DREADNOUGHT" is made on a strong frame, to which is attached to form walls and roof—best Swedish 3 in. Deal Boards, which are V-jointed, tongued, and grooved, and nicely planed. The strongly-made door is hung with stout hinges and fitted with press lock and key. The up-and-down sliding shutter is suspended on a strong chain. Handles for lifting. Two strong perches, and screws for erecting. It is sent out in sections ready for putting up.

PRICE ONLY £2 6 0. Three for £6 13 6d. Six for £13 2 6.  
Floors 13s. extra.  
Carriage paid to any station in England and Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/6 in the £ extra.

## HARRY HEBDITCH, Ltd.,

Desk L, The Poultry Appliance Works, MARTOCK, SOMERSET.

Send for the Free Catalogue of Poultry Appliances and Poultry Keeper's Requisites.

# "FAM" POULTRY FOODS.

Per cwt. Carriage Paid.		Per cwt. Carriage Paid
20/-	Dry Chick Food No. 1	Dry Mash (For Eggs) - 16/6
17/6	Ditto " 2	Chick Mash (A Frame Food) 17/6
14/-	"Scratch-for-it" -	'Glofalfa Meal' (Genuine Alfalfa & Clover Hays) 15/-

If you have the right stuff in your Pullets, and want a **SUSTAINED** out-put of Eggs from them, give our Dry Mash a Trial, it will pay you. Customers who have used it for 10 years prove its value, its a first class Egg Producer at a reasonable price.

16/6 per cwt. carriage paid.

Poultry Wheat.	Fish Meal.	Maize Flour Meal.	Dried Butter Milk.
Poultry Oats.	Meat Meal.	Maize Gluten.	Dried Full Milk.
Poultry Dair.	Biscuit Meal.	Maize Germ Meal.	Dried Yeast.
Poultry Rice.	Biscuit Scrap.	Maize Flake.	Sussex Ground Oats.
Middlings.	Palm Kernel Meal.	Maize Kibbled.	Flint Grit.
Broad Bran.	Malt Culms.	Soya Bean Meal.	Oyster Shell.

**PHILIP CHURCH and SONS**, Phone 130, Swan Wharf, **Bishops Stortford**

## PURE SWEET STERILISED BLOOD.

### RENTOX (Regd).

7 lb. bag sent post free for 5s.

Full Particulars on request.

MIDLAND CATTLE PRODUCTS, Ltd.  
BORDSELEY STREET,  
BIRMINGHAM.

## COCKEREL BOXES

21/6 each. Carriage Paid.

Every purchaser delighted. Send for our Catalogue giving full particulars.

The Surrey Value Co. (Dept. 2),  
Redhill. Phone 290.

## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	89.30	Calcium Sulphate	traces only
Silica	3.03	Moisture, organic matter, etc.	3.19
Oxides of Iron and Alumina	3.92		
Calcium Phosphate	.56		100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## Not

because WE say  
birds are in every  
to be commended,

## But

because customers  
and others who  
seen our farm are  
well satisfied, so  
you send us  
enquiries.

## High Praise Indeed

E. Hales, Esq.  
West Mersey Poultry  
Farm.  
Sandown.  
Isle of Wight  
13th Sept.

Dear Mr. Hales,—

I enjoyed my recent visit to your farm exceedingly, and was pleased to note the excellent quality of the type of the stock you are breeding.

You realise the importance of type and stamina for egg production and providing you select on the you have intimated there is no you will possess some of the best breeding pens possible.

A. PRIEST

Newlands Poultry Farm  
Wigmore, near Chatham.  
8th Sept., 1922.

Dear Sir,—

Received Cockerels yesterday, in good condition. They are splendid birds, and I am very pleased with them. I hope they will be as good as the look in the breeding pens.

W. PYDELL

12, Victoria Road,  
Madeley, Salop.

Mr. E. Hales.

Dear Sir,—

Received birds on Thursday and safe. I am delighted with them. They are a fine lot. I will write you again later on and let you know how they go and what my poultry friends say of them.

I have sent the crate back to-day. This will speak for itself. I do not want to keep them for the three days of approval: am well satisfied first box. Two of them laid last night and again to-day.

J. E. G. ASTON.

All Breeding Pens & 1921 Cockerels now sold.  
Only a few February hatched 1921 Pullets left. W. Leghorns (Padman and Newman strain).

R. I. R. (s.c) Crowley and Boucher or Crowley strain.

Price, 12/6 to 15/- each, carr. paid.

All Birds on Approval four days.

Further particulars as to Egg Records etc., with pleasure.

## West Mersea Poultry Farm,

ESSEX,

Nr. COLCHESTER G.E.Ry.

EXCEPTIONAL OPPORTUNITY.



# Poultry Breeders

USE

## Dried Yeast

CONTAINING 45 PER CENT. ALBUMINOIDS.

Highest in "B" Vitamines.

AND

## Ossified Yeast

CONTAINING 12 PER CENT. OIL,  
39 PER CENT. ALBUMINOIDS.

Containing both "A" and "B" Vitamines.

EXCELLENT FOR EGG PRODUCTION, AND INVALUABLE  
AS A PREVENTATIVE OF LEG WEAKNESS.

Strongly Recommended by the S.P.B.A.



ALSO OUR



## POULTRY MEAL,

Containing both the above Ingredients.

### PRICES.

Dried Yeast	-	-	20/-	per cwt.	} Carriage Paid England and Wales. Cash with Order.
Ossified Yeast	-	-	21/-	" "	
Poultry Meal	-	-	17/6	" "	

10 per cent. Discount to Members of the S.P.B.A. if ordered through  
the Association.

## THE ENGLISH GRAINS CO., Ltd.,

Derby Road, Burton-on-Trent.

**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**

**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels.**  
 from large egg, high record L2 Hens.

**READY FOR NORTH POLE.**

Any stock taken from here to there would thrive.

Cold almost kills me, but as no one wishes to change places I must grin and freeze.

**Cockerels only for Sale now.**

Cam-Padman's Leghorns, sire's dam 276.  
 Lawson's Anconas, sire's dams 40-60 to L2 Hens. No R.I.B. left.

Or Exchange for as good.

Plant being enlarged. See advertisements, "Eggs," later for Breeding Pens.

**MONCRIEFF'S POULTRY FARM,**  
 Little Mongeham, Deal.

**S. & J. PARSONS,**  
 The Poultry Farm, Musbury, Devon.

Breeders of the Highest Class Utility White Wyandottes and White Leghorns, and consistent winners in the various laying competitions.

Specialist Breeders of High Pedigree Cockerels.

1922 Cockerels from 21/- to 34/- each.

1921 Cockerels from 15/- to 30/- each.

1922 Pullets (Early Hatched) 21/- to 42/- each.

A few Special 1922 Hens at 9/- to 12/6 each.

Our Book "The Secret of Egg Production," 3/-.

Further particulars on application.

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

Also for fattening:—

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

**BRITANNIA MILLS,**  
**HEATHFIELD, SUSSEX.**

**6, BROAD STREET,**  
**RATCLIFFE, LONDON, E.1.**

**NOTE THESE PRICES!**

Then compare **QUALITY** and **NUTRITIVE VALUE** in relation to the food you now use.

**POULTRY FOODS**

Wheat  
 Kibbled Maize (Sifted)  
 Clipped Oats

**MEALS**

Maize Meal (Fine)  
 Sussex Ground Oats  
 S.F.C. Dry Mash  
 Bran  
 Middlings

ALSO—Maize (whole), Barley, Oat Feed, Barley Meal, Oat Meal (Poultry), Barley (fine), Cockle Shell, Flax, Mixed Grit, Pure Oyster Shell, K. and B. Bones.

Prices on Application.

Resolve to try these **HIGHEST QUALITY FOODS** and Order through **Secretaries S.P.B.A.**, and get your share.

*The Service for*  
**VICTORIA MEALS**  
*—GUTHRIE—*

**HOO MEAVY POULTRY DAIRY FARM**

Near YELVERTON, S. M.

**MAJOR DISNEY-ROEBUCK**

Mrs. DISNEY-ROEBUCK

Specialist Breeder

of

**LIGHT SUSSEX**

(Eden-Rothschild).

**WHITE LEGHORN**

Cam and Padman).

**CROAD LANGSHIRE**

(Mullen's).

Eggs for Hatching. Standard Cockerels  
 Three Months' Pullets.

Devonshire Cream by Post  
 Large Grass Run. Trap-Nests. Food  
 S.P.B.A. Lines.

**Unlimited MILK for YOUNG**

**DAIRY**



Regd. Trade Mark.

**SHOW.**

***Stand No. 161, Gallery, under the Clock.***

**OUR EXHIBITS WILL INCLUDE:—**

Scale Model New "Planok" Illuminated Fireless Brooder.

"Planok" No. 2 Fireless Brooder and Scratching Shed.

"Planok" No. 1 do. do. do.

"Planok" Trapnests.

"Planok" Egg Boxes, 6, 10 and 30 doz. Sizes.

Special Line Egg Boxes, 24 and 30 doz. Sizes.

**WORSSAM & ABBOTT,**

**PYRCROFT HOUSE,  
CHERTSEY.**

**'Phone:  
CHERTSEY 8**

**E. LESLIE PATTISON,**

**WESTON COYNEY HALL, LONGTON, STAFFS.**

**TEL. LONGTON 6X1.**

**White Wyandottes.**

**Rhode Island Reds.**

**White Leghorns.**

The best-equipped Poultry Farm in the Midlands, 600 feet above sea level, exposed situation. The stock is equal to the best, and has been bred from tested parents for eight generations and is entirely free from disease.

**ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS AND WOODLAND.**

**Stock Cockerels.**

bred from selected hens with 2, 3 and 4 years complete records by sires bred from proved L<sup>g</sup> birds.

**FULL PEDIGREE WITH EVERY BIRD.**

**Special Cockerels from pens with an average of over 400 Eggs in 2 years, from 20/- each.**

**Pullets, all ages, from 12/6.**

**Tested Breeding Hens, with complete Trap-nest Records and Pedigrees, from 10/6.**

**'The newer knowledge of nutrition.'**

The discoveries of Dr. E. V. McCollum (foremost among many other Scientists who have made a life's study of this subject) during the last few years have revolutionised our ideas of Nutritive Food Values. Few people indeed yet grasp the importance of these researches. It means that in a few years' time there will be very few cases of Rickets, and also fewer Skin Diseases and cases of Eye-Trouble among young human beings, as well as birds and animals.

All these in the past have been occasioned very largely through our insufficient knowledge of NUTRITION.

**THIS NEWER KNOWLEDGE MUST NOW REVOLUTIONISE ALL IDEAS OF FEEDING.**

**Motor Deliveries in  
Mid and West Sussex.**

We have for some years closely studied the works of many authorities on Food Nutrition; consequently we are enabled to offer better Nutritive Value in our foods than anyone can do who has not made a thorough study of the subject.

You can ensure:—

Better breeding stock, with consequent better hatchability of Eggs.

Stronger, quicker-growing and healthier Chicks.

Better and Quicker Matured Pullets laying larger Eggs.

Quicker Fattening of all poultry and growing Farm stock.

**THIS IS NOT A QUESTION OF ADDITIONAL COST, BUT OF APPLIED KNOWLEDGE IN MIXING FOODS.**



THE GREEN-OLIVER IDEAL PEOPLE.

**The Steyne Foods Co.,**  
**STEYNING, SUSSEX,**  
**For STAMINA**  
**FOODS.**



Old English Fighting Cock.

Barley Meal.  
Bean Meal (Loyal).  
Biscuit Meal.  
Blood Meal (Dried).  
Bran.  
Charcoal.  
Green Clover Meal.  
Dry Chick Food.  
Duck Laying Meal.  
Fish Meats (White).  
Fish Meal (Grain).  
Fattening Meal.  
Growth (Whole).  
Growth of Food.  
Hound Meal.  
Laying Meats (L).  
Lime Meal.  
Meat Meal.  
Maize (White).  
Maize (Yellow).  
Maize (Blended).  
Maize (Dark).  
Maize (Mutton).  
Maize Meal.  
Meat Dog Cakes.  
Middlings.  
Millet.  
Poultry Mixture.  
Oats (Heavy, Whole).  
Oats (Sussex Ground).  
Wheat.  
Yeast (Dried and Ground).  
Feat Meas Litter.  
Ditto (Granulated).  
Calf Meal.  
Cattle Cakes and Meal.  
Oyster, Cockle, Limestone.  
Flint Grits.

**Full Lists  
with pleasure.**

**Cerema**  
**MARMITE**

**Vitamin Poultry Food**

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

Carriage Paid. Cash with Order.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**

**Better Birds  
—more Eggs**

**T**HIS preparation contains the important B. Vitamin so essential for the health of Birds. It may be given either in the form of a drink by dissolving in water, or the solution may be incorporated in the mash. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

Wednesday, October 25th, 1922.



# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

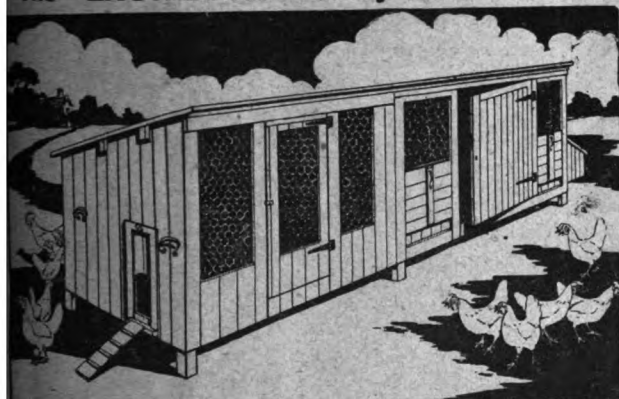
(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 17. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## The "LAURETTA" Poultry House and Run.

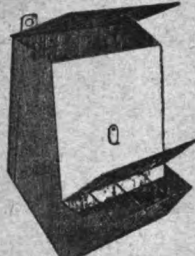


The "LAURETTA" is made on a strong frame, to which is attached to form walls and roof—best Swedish 3in. Deal Boards, which are V-jointed, tongued, and grooved, and nicely planed. The strongly-made doors are hung with stout hinges and the one to the roost is fitted with press lock and key. The up-and-down sliding shutters are suspended on strong chains. The roost is divided from the covered run by a strong Deal partition. Handles for lifting. Two strong perches, and bolts and spanners for erecting. It is sent out in sections ready for putting up.

Price only £6 17 6. If without nests, £6 5s. 0d. Size 12ft. long, 4ft. wide. Height, 5ft. from ground. No extra for Floor. Carriage paid to any station in England and Wales. Prompt despatch. If pickled the cost is 1/6 in the £ extra.

## The "DELTA"

Non-Clog Dry Mash Hopper. Rat Proof.  
No. 1 is 18in. x 8in. No. 3 is 18in. x 18in.  
No. 2 is 18in. x 12in. No. 4 is 18in. x 36in.  
Price: No. 1, 7/6, 3 for 22/3, 6 for 42/9.  
12 for 81/-.  
No. 2, 10/6, 3 for 28/9, 6 for 55/3, 12 for 102/6.  
No. 3, 12/6, 3 for 36/6, 6 for 68/6, 12 for 129/6.  
No. 4, 21/6, 2 for 41/6, 3 for 60/6.  
Carriage Paid Passenger Train.  
Prompt Despatch.



**HARRY HEBDITCH, Ltd.,** The Poultry Appliance Works,

(Desk J), MARTOCK, SOMERSET.

Send for the Catalogues of all Poultry Keepers' Requisites.

## SPECIAL OFFER.

Best Quality New SWEDISH

## Red Deal Timber,

BRIGHT AND CLEAN.

Tongued, grooved and V-jointed planed boards.

Per 100ft. run.	Per 100ft. run.
4in. x 3in. 6/-	4in. x 3in. 5/4
4 1/2in. x 3in. 6/8	4 1/2in. x 3in. 6/-
5in. x 3in. 7/6	5in. x 3in. 6/6
5 1/2in. x 3in. 8/3	5 1/2in. x 3in. 7/4
6in. x 3in. 9/-	

Best Swedish and Finnish Imported Battens and Boards.

Per 100ft. run.	Per 100ft. run.
2in. x 3in. 3/-	2in. x 4in. 17/-
2in. x 1in. 4/-	3in. x 1in. 6/6
2in. x 1 1/2in. 7/-	4in. x 1in. 4/6
2in. x 2in. 8/-	4in. x 2in. 5/6
2in. x 3in. 11/6	4in. x 1in. 7/6
2in. x 4in. 16/-	4in. x 1 1/2in. 11/6

All above F.O.R., Martock.  
Prompt Despatch.

## Best British Wire Netting.

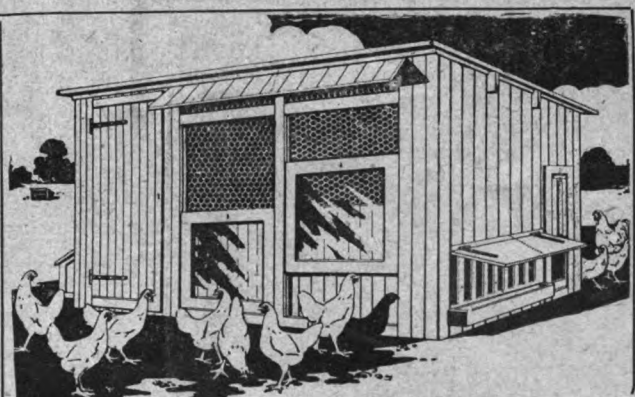
Galvanised Per Roll of 50 yards.  
1ft. 2ft. 3ft. 4ft. 5ft. 6ft.  
Mesh. wd. wd. wd. wd. wd. wd.  
3in. 4/- 7/2 9/10 13/2 16/5 19/8  
2in. 5/6 10/- 13/7 18/1 22/7 27/1  
1in. 9/- 16/4 23/2 30/11 38/7 46/4  
Other sizes quoted for. Consignments of £6 5s. value and upwards Carriage Paid in England and Wales. Prompt Despatch. Don't Buy Continental Rubbish. BEST GALVD. BARBED WIRE, 4 point (about 560 yds. to cwt.). Price, 24/- cwt., 3 cwt. and upwards Carriage Paid.

SANDED ROOFING FELT, in rolls 15 yards long, 1 yard wide, 4/6 per roll. 20 rolls and upwards Carriage Paid.

PLUVEX FELT, in rolls 12 yards long, 1 yard wide, 7/- per roll. Two rolls and upwards. Car. Pd.

"STAREX" FELT, 2 ply, 11/- per roll. Carriage Forward.  
LEATHERITE FELT, in rolls 15 yards long, 1 yard wide, 14/- per roll. Carriage forward.

## The "EXCELSIOR" Semi-Intensive House.



Made of best 3in. V-jointed, tongued, and grooved Best Swedish Deal. It is specially suitable for semi-intensive work, and is for this purpose used by thousands of poultry-keepers all over the country. It is provided with a strong perch the whole length of house and a wide dropping board below it.

No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 6ft. wide, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

PRICE: No. 1, £7 8s. 0d. Floor 25/6 extra.  
PRICE: No. 2, £9 15s. 6d. Floor 39/- extra.

Carriage paid to any station in England or Wales. Prompt despatch. If pickled with Preserolium the cost is 1/6 in the £ extra.

Prompt  
in the



# PRIEST & SHAW'S

## SPECIALITY—Scientific Breeding for Egg-Production, Pedigree Wyandotte and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

### Can Any Firm wish for Better Testimony?

Letter No. 75.

Garfield,  
Ensbury,  
BOURNEMOUTH.  
28th Sept., 1922.

Dear Sirs,—

Can you offer me a good White Leghorn Cockerel, say March, 1922?

Last dozen Wyandotte Day-Olds produced nine pullets. Sitting Leghorn Eggs produced nine pullets.

Yours faithfully,  
W. B. ELLISON.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number Well-developed Pullets, due to commence Laying during the Month of October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.

# Cerema

MARMITE

### Vitamin Poultry Food

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

### Better Birds —more Eggs

THIS preparation contains the important B. Vitamin so essential for the health of Birds. Birds having too little B Vitamin often go off their legs. Cerema M. helps to prevent this. Egg-laying is improved by addition of this vitamin to the food. Those who feed dry mash may give Cerema M. as a drink (1½ oz. to 1 quart water) to the Birds in the morning. Those who feed wet mash may incorporate a rather stronger solution in the mixture. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

**522 PEDIGREE LAYING PULLETS.**  
On One Month's Approval.

**MODE 1. REDS**  
Boucher's) March  
and April hatched.  
mm's records 249.  
N. Sire's Dam 291.

**WHITE WYANDOTTES** (Barron's).  
1937. Sire son of  
Wilson Beattie's  
Snowball.



**WHITE LEGHORNS**, Dams 250 upwards,  
sire's dam, Gilpin's 293-egg hen.  
18/-, 21/- and 28/- each. Satisfaction  
Guaranteed.

**W. C. CRAY POULTRY FARM, Ltd.**,  
Sidcup, Kent.

**TIMBER—What about it?**

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY.

4in x 4in. T.G.B.	7s. 6d.	3in x 6in. Sawn Bds.	8s. 6d.	3in. x 1in. Battens	6s. 6d.
4in. x 5in. T.G.B.	9s. 6d.	1in. x 6in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
3in. x 5in. T.G.B.	8s. 6d.	3in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 6d.
3in. x 5in. T.G.B.	11s. 6d.	1in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
1in. x 5in. T. & G.	13s. 6d.	2in. x 1in. Battens	6s. 6d.	3in. x 6in. Battens	48s. 6d.
3in. x 6in. Sawn Bds.	6s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 5in. W'th'bds.	7s. 6d.
		2in x 3in. Battens	12s. 6d.		

per 100 feet. OUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mills. SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

**Bred-to-Lay Strains**

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

**Stock Cockerels and Breeding Hens**

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Fullfree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

**GRANULATED  
MOSS LITTER**

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 22lb., 3s. 6d.; 2, 5s. 9d.;  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

12, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS,  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks various  
ages, in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.) and Barred Rocks.  
Inspection invited. Cash or Deposit. Tel.: 5073

<b>QUALITY,</b> <b>PRICE,</b> <b>DELIVERY.</b>	<b>GRAIN, MEAL,</b> <b>GRIT, Etc.</b>
	<b>Etc.</b>
<b>MAIN POINTS</b>	<b>SEND FOR SAMPLES AND PRICES</b>
<b>JOHN W. BEVANS &amp; Co., Tangier Rd., Portsmouth</b>	

**CHEAPER MILKO!**

Our many customers, and poultry-keepers generally, will be pleased to hear that they can now purchase **MILKO LAYING MEAL** for the reduced price of 21/6 per cwt. **CARRIAGE PAID.** This reduction is brought about by the large volumes of business we are now doing in this wonderful meal. Large and small poultry keepers all over the country have found out that **MILKO Laying Meal** is the best food for heavy egg-production and healthy birds. This means that repeat orders reach us in large numbers daily, which in turn means reduced selling costs.

In announcing this reduction, we want to make it quite clear that the excellent quality of this meal will be maintained throughout. **MILKO Laying Meal**, as is now well-known to all progressive poultry farmers, is based on milk and balanced by experts. This fact in itself is sufficient to place it miles ahead of all other Foods. But there are other factors, far too numerous to mention here, which go to make **MILKO** foods the best it is possible to produce. But don't forget that only the best ingredients are used in **MILKO** foods. They contain no spices or condiments, or injurious drugs, only pure meals being used in their manufacture.

A trial will prove to you that you should regularly use **MILKO Laying Meal**. Now is the time to test this food when eggs are scarce and fetching high prices. Do as hundreds of progressive poultry keepers are doing—start to-day to use **MILKO Laying Meal**, positively the greatest egg-producer ever manufactured.

**NOTE THE NEW PRICES—Only 21/6 per cwt; 4 cwt. £4 4s. Carriage Paid. Reduction on ton lots.**

10 per cent, discount allowed to members ordering through the  
S.P.B.A.

**MILKO FOOD CO.,**

(Dept. 2),

**Fleet House, Fleet Street,**  
**LONDON, E.C. 4.**



## CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

### "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry. The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

### "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

QUOTATIONS  
AND  
PARTICULARS  
FREE

*Satisfaction  
Guaranteed.*

## EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

HIS  
**WHITE WYANDOTTES**  
and **WHITE LEGHORNS**  
are unbeatable as layers of large eggs, and plenty of them.

Send 11d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

### WHO SERVES BEST.

Advertisers are kindly requested to forward their Copy at once for the S.P.B.A. ANNUAL REGISTER.

### "An Egg in Every Ounce."

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England

**ROSSLYN & Co.,**  
30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# SONIMOR

(WHITE LEGHORN)

## UNTIL FURTHER NOTICE.

1922	PULLETS	from	40/-
1921	"	"	12/-
1920	"	"	10/-
1919	"	"	6/-

Specially Selected Cockerels from 6/-

\*Phone:— 6 Chaddleworth.      Grams:— "Sonimor, Leckhamstead."

# EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

THE LARGEST ONE BREED FARM ON EARTH OR AS FAR AS WE KNOW ANYWHERE ELSE

OUR POPULAR PRICE LIST AND OTHER PARTICULARS COST NOTHING

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, October 25th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 3d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### THE DAIRY SHOW.

Anticipations were not realised, at least as far as the Poultry Section of the Dairy Show was concerned, for this year it was a greater success than ever. There was a huge crowd in the gallery, a very interested and happy one too. Exhibitors of appliances and foodstuffs expressed themselves as fully satisfied with business done, and for this reason we say "anticipations were not realised," for many of them confessed that in such a period of trade depression they had not expected to do so well. Whatever may be "The Present Position" we found no great anxiety manifested, everyone seemed keen and optimistic.

At the S.P.B.A. Stand we were very very busy, all day and every day there was a crowd round the stand, keenly interested in the exhibits, and keeping those in attendance fully occupied in answering their questions.

As far as the S.P.B.A. was concerned, it was a conspicuous success. The number of new members enrolled created a new record, and we may remark that in the seven weeks ending October 19th,

**550 NEW MEMBERS HAVE JOINED THE ASSOCIATION.**

Hundreds of members visited the stand, and their appreciative remarks of the work of the Association and of the value of "Eggs" was most highly gratifying to the members of the Council.

The attendance at the General Meeting was greater than in any previous year, in spite of the fact that it was held at a most inconvenient hour. The Council did their utmost to arrange it for the afternoon, but this was impossible.

We shall refer to the meeting again in next week's issue.

As to the appliances, there was much of interest to be seen, and visitors could not complain of lack of choice. Possibly with such infinite variety they would find difficulty in choosing.

Coming to the Utility Poultry, we find the entries were below those of last year, 238 as compared with 281. Whether this indicates a declining interest in Utility shows, or whether breeders doubt the wisdom or are afraid of the risk of sending valuable birds on long railway journeys to spend four long days in such an atmosphere, we cannot say. Risk there certainly is, and many have had cause to rue the day when they sent their best birds to these three and four day shows. With the Fancier it is a different matter, his birds are bred and fed for show purposes; it is his business to keep them in show condition, he is not concerned with egg production, but the Utility breeder is in a different position, he IS concerned with egg production, and to be asked to send his best pullet to a show from which it may, and often does, return in a condition which may materially injure it as a prospective breeder, is to say the least of it not a very attractive proposition. If he wins in a big show, it may be of advantage to him as an advertisement—otherwise what does he gain? Experience. What experience? when judges hold opinions diametrically opposed to one another, when one judge places a high value on head points, and another practically ignores them; when there are differences of opinion as to the length of the breast bone; and when we find a bird scored high a certain point and low for another, and yet the total points awarded are sufficient to gain a card for her owner; when we know that exhibition stock are continually winning in Utility shows. We had a long conversation with two well-known Lancashire experts on the subject of Utility shows, men whose reputation as judges of Utility stock stands very high, and they were both strongly of opinion that the shows were doing considerably more harm than good. With that opinion we cordially agree; a small one-day show where a demonstration of the handling test could be given would be of real value; the Utility show should be a local show, the Dairy and Olympia are not the place for them, the talk of their educational value is piffle.

In the hands of such an expert judge as Mr. W. Hammett one does not expect to see much amiss with the awards, and they gave general satisfaction. Generally speaking, the exhibits did not reach a high standard. In the Rhode Island Reds one got the impression that exhibitors thought a good colour was likely to impress the judge more than the utility characteristics; at any rate they went careless, the colour would not appeal to the fancier, and we are by no means implying that it was anything to write home about, but it was not so bad as in previous years. In Wyandottes, Mr. Fraser took 1st and special, and won well. There were 70 entries in

this class. Mr. Rodwell won 1st and special in the Leghorn class of 72 entries. There were 96 entries in the A.O.V. class, and the highest award went to Mr. Gardner. A Speckled Sussex pullet, the comb was floppy and the colour none too good, but she handled well; there was some criticism of this award, but in a Utility class she was well placed.

The Utility Black Minorcas in the breeding pens were not a very attractive lot and did nothing to add to the popularity of the breed with Utilitarians. This is a pity, as there seems a great possibility of this fine old breed coming into its own again. Black Leghorns are evidently increasing in popularity, and we may expect a great future for them with a sane club to look after their interests.

Orpingtons do not appear to make progress, when one remembers the popularity of the Buff a few years ago, and its great value as a utility breed one realises what extremists can do to ruin a breed, whether they be Fancier or Utilitarian. But the Whites are a mystery, at one time they promised to be one of the most popular varieties, and why with their excellent utility properties they should have lost favour is hard to explain.

Croad Langshans were a good lot. The standard does not interfere with their utility qualities; indeed, it encourages them.

The Sussex are as popular as ever. Here we believe the Fancier is breeding the better utility bird. The Sussex in the Utility classes were not impressive.

Wyandottes were a big class, but there is the old fetish for size. Leghorns had a big entry, the difference between the utility and the exhibition variety is as marked as ever, as a thing of beauty we much prefer the well-bred racy utility type to the lanky, anaemic specimens which appear to be the Fancier's ideal.

## Foods and Feeding.

By TOM NEWMAN.

I take the following from Mr. Phillip Larcom's letter, which appears in another column:—

"In connection with this, do we not regard the composition of our mashes too exclusively from the scientific point of view. . . . Is it not a fact that we read much of constituents and nothing of prices."

I don't know whether I quite understand Mr. Larcom, or not, but I should not think any mash *Scientific* if it was not at the same time *Economic*. We come right back to the fact that we have to consider not what it costs to feed a hen, but what it costs to produce an egg. I may be biased, but I believe that at present that old standard mash of mine, viz.: 3 lbs. Bran, 4 lbs. Middlings, 1 each of Maize Gluten, Ground Oats and Fish Meal, to be at once the cheapest and most economic that can be mixed. By "Economic" I mean one which is consistent with high production, combined with health and vigour, at a relatively low cost. At the present time I can make

this mash at £10 10s. per ton, viz.: 6 cwt. Bran, at 8s.; 8 cwt. Middlings, at 9s.; 2 cwt. Gluten Feed, 11s.; 2 Ground Oats, 16s.; 2 Fish Meal at 18s.—£10 10s., and the ingredients are all of good quality. Of course, we are buying in ton lots. That, I think, compares favourably with Mr. Larcom's £14 for 23 cwt.

The above is a dry mash; it can easily be converted into a wet by reducing the bran to one part and increasing the middlings correspondingly. Now I am going to make one suggestion that will cheapen it. That is to use a GOOD sample of feed oatmeal in place of Sussex Ground Oats. Only it must be good, and its goodness is best determined by the percentage of oat husk. A poor sample always carries a high percentage of the husk. Feed Oatmeal is often sold as Sussex Ground Oats. I have had hundreds of such samples sent me, and it is no doubt giving a huge profit to some advertisers who sell it as such. It should not cost more than £14 per ton. I have a letter this week from a member who contends that he cannot feed his birds at a less cost than 13s. per annum. There must be something radically wrong here. It should not cost even a comparatively small buyer more than 2½d. per head.

A lady correspondent asks me to consider the case of the General Farmer. She writes:—"As you know, there has been an enormous crop of potatoes in some parts, and prices are very low. Many farmers, too, have available for feeding, barley, wheat and oats, and there has been a good crop of cabbages and roots."

I gave mashes with potatoes in last week's issue, and that of the week before. I must repeat that potatoes are very deficient in protein and the lime salts, and, therefore, they badly need balancing in that respect. They should not be used with barley meal or maize meal except when intended for a fattening mash. Barley may always take the place of maize in any mash, as a grain it could be fed with equal parts wheat and oats. The roots and cabbage are best given in their raw state.

I am interested in the question of crooked breast bones at present. Here is a case in point. A member bought sittings of eggs from a well-known breeder; a high percentage of the chicks had crooked breast bones, while those hatched from the writer's own stock, reared under identically the same conditions were quite normal. Another member was offered by the same breeder a cockerel from a record laying hen. He was told that the bird had a crooked breast bone, as did a high percentage of the birds from this particular pen, so that was all straight enough. The hens in this pen had all big records, and the birds themselves were all normal. The point is what was the cause of the crooked breast bones. Was it a deficiency of Vitamine "A." or Vitamine "B." or mineral salts or a combination of all three. We have to acknowledge there is this tendency to soft bone in the progeny of our heavy producers. That is one reason why I am advising the use of fish meal impregnated with cod liver oil. That is one point, and it can also be provided against by the use of dried full milk, but that is not an economic price, and the separated milk does not contain the vitamines, but it is very rich in the lime



alts, and the protein is of good value. If the eggs of the heavy producer were not deficient in certain essential elements, we should not get these complaints of crooked breast bone in the progeny, nor should we get so much leg weakness. Now, harking back to Mr. Larcom's letter and the price of food, Can we, by improving our methods of feeding, prolong the economic life of the hen. After all that is of the very greatest importance. It is a factor to which we have paid very little attention. We almost invariably accept certain assertions as facts. It is quite possible that we have "starved" the hen, and so rendered it impossible for her to lay her full quota of eggs. There are a few exceptional individuals which have laid their thousand eggs. The vast majority don't lay 500. All these things are factors in the greater economy of the farm, and they are what I was especially referring to when I spoke of the greater efficiency. The cost of feeding is said to be 60 per cent. of the cost of production. If we could reduce the cost of replacements by prolonging the economic life of the hen, we shall have accomplished something. That is where the N.P.I. will come in.

## HOW SCIENCE IS BENEFITING THE POULTRY-KEEPER.

PROFESSOR PUNNETT VISITS "HEASELANDS,"  
HAYWARDS HEATH.

There are many farmers to-day who still look with suspicion on the scientist, and are not prepared to credit him of doing much for the benefit of his kind. It is, of course, an erroneous idea, and it would be only fair to accept what the scientist tells us with an open mind.

Professor Punnett has come very much to the fore of late in his investigations into matters concerning Poultry, and last Friday he gave a most important lecture to the pupils and staff of "Heaslands" Poultry Farm. Mr. Bostock Smith occupied the chair, and, in introducing the lecturer, said that the subject to be dealt with—"Research on Heredity in Poultry"—was a most interesting one, but one on which comparatively little is known. The lecturer has an international reputation, his research work being as equally well-known in America as in this country.

In opening his subject, Professor Punnett said he would assume that his hearers had never studied it, and he would go into the most elementary facts. Supposing one takes two pure breeds, one white and the other black, and mates them together, the first generation becomes all black, and that is called the dominant character, the white being what is called "recessive," because it does not show them. This is only true in certain breeds. Then in mating the first-cross blacks together (called F.1) we get whites as well in their progeny, the proportion being three blacks to one white. The whites so bred will breed perfectly true, but the blacks will not all breed true black, although some of them will do so. These results are not alone found in poultry, but in animals as well.

One hears occasionally of single combs arising from White Wyandottes, and in such cases the cockerel is always at fault. At the same time one or more of the hens may also be impure. It is a matter which can be quickly avoided. What one has to do is to mate the rose comb cockerel with any single comb hen, and see if any of the offspring throw single combs; if they do, the cockerel is at fault. In the same way the hens may be tested.

## SEX-LINKED CHARACTERS.

If one makes a cross between a pure silver cock and a golden hen, they will find that the feathering of the offspring becomes silver, but from the reverse cross, viz., silver hen and gold cock, both gold and silver offspring are produced, but all the silvers are cockerels, and all the golds are pullets. From the point of view of sex determination, this is a very important factor, because a hen will give certain characters to her sons, and other characters to her daughters. If you have a character depending upon a factor which shews sex-linkage, the hen will transmit it to her sons, but not to her daughters, and the cock will transmit it to either sex. From the mating of a silver hen to a golden cock it is easy to tell the sexes, as all those with gold will be cockerels, and those with silver will be pullets. Of course, this is assuming that pure breeds are used. This has some considerable commercial value, and Professor Punnett mentioned that he knew several instances where people were selling day-old chicks guaranteed to be pullets.

The distinction between down colours can be obtained by a very large number of crosses. One can pick out the pullets and cockerels immediately the chicks are hatched, and by utilising the knowledge recently gained in connection with vitamine feeding, whereby a chicken can be brought into maturity at a very early age, the cockerels can be made full use of as table birds.

In referring to sex-linked inheritance, Professor Punnett said that this in all probability had a connection with egg laying.

According to Dr. Pearl one of the factors for high fecundity is sex-linked, so that the high record hen must get the factor from her father. Hence the importance of using hens with a high record to breed sires.

There are many things, such as broodiness, fecundity, vitality, and so on, which are very difficult to analyse. One cannot tell until a pullet begins to lay whether she is going to be a good layer or not, but it seems to me, said the lecturer, that there is a good possibility of being able to predict these things, to be able to say whether this or that one will go broody. The first thing is to look out for visible characters—something in the colour or something on the legs, which seem to show an association between invisible ones, as for instance, broodiness or fecundity. There may be many small details which in themselves appear trivial, but which in reality have an association with some important factor. If any poultry-keeper ever notices a peculiarity which appears to be connected with heredity, it will help the scientist to know of it, as it will provide a basis on which to commence research.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

B. A. W. (Stamford). The Rhode Island Red pullet which constantly visits the nest and does not lay is probably absorbing her eggs; such cases seem to me to be on the increase as I often hear of them. I am afraid you can do nothing; your feeding is alright, but Bean Meal is not a substitute for Fish Meal. You say you had another hen of the same strain which did exactly the same thing after laying for some time. You will do no good in this case by dieting, and I think your best plan will be to kill her. You will probably find plenty of eggs in her, but she absorbs them instead of laying them. (2) The proportion should be  $1\frac{1}{2}$  ozs. to the gallon of drink-water.

Teviot (Jedburgh). "I have this season reared all my chicks (for the first time) on dry mash made according to your recipe and instructions. I never had better birds and pullets, hatched 28th February, started laying August 1st, they thrive simply amazingly. I have all the pullets, 80 in number, on same dry mash as last year's birds, should I alter the mash for them or for the birds (1921) from which I want to breed? My mash is simple enough, and the eggs are fine and large. Would you advise me to put into my stocks maize germ meal and maize gluten feed, neither are very common up here? Please express an opinion on the quality and price of samples."

I am pleased to hear you have reared so successful on my formula. The samples you send are all good value except the Bran at 10s., which I consider rather dear. As to your question re stocking gluten feed or germ meal. The point is that both are better value than maize meal. It is not necessary to stock them. It is one of values.

H. S. (Blackburn). No. 1 at 17s. 6d. is the better sample of Fish Meal. I should be a little doubtful of the other unless I had a guaranteed analysis. I do not think you can feed more economically than you are doing; if the pullets are slow in coming on to lay don't ease off with the mash, but encourage them to eat as much as they will. Handle them and ascertain their condition. If it is a dry mash give them access to it all day. I don't think cockle seed is worth 9s. 6d. per cwt. You should give your birds equal parts Kibbled Maize, Oats, and Wheat as the grain feed. I rather fancy they are slightly underfed.

L. B. S. (Hertford). You have 20 pullets which have laid 2,987 eggs in the 12 months, and you ask if I think they are worth breeding from. It is not a great record; nevertheless there must be a few good birds amongst them, and if you could select these I think you should be able to make up a pen which, if mated to a cockerel from a good dam, would breed you much better stock than you have at present. I think this will be a better plan than scrapping the lot and making a fresh start, which will be expensive and may be no more satisfactory. It is rather a bad time for an inexperienced person to make a selection, and you may make mistakes. Wait until they are through the moult, then follow as closely as possible the Points of the Layer as indicated on page 49 of this year's S.P.B.A. Register. (2) You will not need to mate them until the beginning of February, when there will be less difficulty in selection as they should then be in full lay. (3) You won't want two cockerels, as you must not breed from the 20 birds if you want to improve. If you breed from the lot your flock average will in all probability fall below that of last year; improvement depends on selection.

G. C. (Aston). You will not breed out the single comb factor in your Wyandottes by simply mating them to an exhibition cockerel. It is quite true that rose comb is dominant if it is homozygous, and to breed out single comb you have to test the sire and the dam and see that neither carry the single comb factor. It is not an easy task. Mate your single comb hens to rose comb cockerels and your rose comb hens to single comb cockerels. The males and females which are pure will breed ONLY rose comb offspring, although they are mated to single comb birds. Those which are impure for rose comb will throw about 50 per cent. of each. You will, of course, not use the progeny of these matings, as none of them will be "pure" for rose comb. Your stock at present carries the recessive single comb as well as the dominant rose comb, and single combs will continue to bob up unless you resort to the progeny test.

C. L. (Burton). Yes, your results are very bad, but I cannot trace it to the feeding, and it will do no good to change to dry mash. There is just the question as to whether you have fed the mash in too sloppy a condition; this will cause digestive trouble, but that you will know yourself. You say there is no sign of colds and the droppings are normal.

Well, then, there is the question of bad ventilation, overcrowding, or insect life. Which is the more likely? You consider these three things, as being the most probable source of your trouble. The samples you send are all good average quality. (3) If I suspected any particular ingredient as being the cause of my birds being in poor condition, I should start by omitting the Fish or Meat Meal. That is always the first thing to do if you suspect the food. (4) The hen has a broken down abdomen. Such a bird I should kill, she is useless as a breeder.

C. E. P. (Dunstable). It is altogether hopeless to expect to make money from poultry if you are foolish enough to pay 35s. a cwt. for mash; you say your birds are not locking well, and ask if I think it is the fault of the mash; that I cannot say, as it may be the result of your general management, and one must not attribute all faults to the feeding. A cheap and suitable mash for your conditions would be the No. 1 dry mash published in last week's "Eggs."

J. Q. (Manningtree). I cannot give you a cheaper method of feeding than the one you are using, but you might economise a little if you opened the mash hoppers the whole day as I have always advised, and reduced the grain to  $1\frac{1}{2}$  ozs. a day. You should not give mangolds now, they are not fit to feed until after Christmas. As you are using my laying mash, you ought to be feeding your birds at 2d. per week at the most; if you could buy in large enough quantities it should not cost more than 2d. The cheapest mash I can advise at the present moment which will give good results is number one published in another part of this issue; as you will have plenty of green food, you can replace the clover with another part bran which will make it cheaper still.

M. C. (Scotland). I cannot find the mash you refer to; there is no reason why the other mash should not be used for intensively kept birds. (2) It is a question of the best or not the best. I consider Maize Germ Meal much better than Maize Meal. (3) I should use one ounce of that, which is now advertised, to the gallon of drinking water. (4) Eight per cent. of Cod Liver Oil to Fish Meal.

G. K. (Bennetsbridge). I have not the slightest idea what this substance can be, and guessing will not help you. I think you should get it analysed. I am pleased to hear that you have a splendid lot of pullets.

A. G. G. (Kimberworth). B. is the better sample of Clover Meal, it is only fair; I would not care to give more than 12s. a cwt. for it. The sample of Ground Oats is an average one, value about 18s. per cwt. (2) The alternative mash is complicated, unnecessarily so; if you use my mash, why don't you follow my suggestions at giving variety. Please read what I have said on giving variety in the article on some causes of failure. (3) If you use my breeding mash I do not think either of the two ingredients you mention necessary. (4) Samples we have had from

this advertiser are quite satisfactory. (5) Except that the manure has not the same value if you use lime on the dropping board I know of no objection to its use. (6) I do not know of anything to prevent maggots appearing in the droppings after they have stood in the open. (7) Yes, the matings will be alright if the pullets' records are good enough, but I do not think two pens good enough to mate from 15 pullets.

### POST-MORTEMS.

C. Carmichael. Your bird died from intestinal obstruction. There were two growths in her intestine which prevented the passage of the food. So the upper part of the intestines and the lower end of the gullet were much distended with food which could not pass.

"Colshi." Your bird had leukaemia. This is a very severe kind of anaemia. It is sometimes infectious. The yellow appearance is characteristic. I should be inclined to think that the other hens who look yellowish are in any early stage of the same disease. I think they should be separated.

D. W. (Whaley Bridge). The hen had severe peritonitis, caused by rupturing a yolk sac internally. Upper oviduct was filled with masses of hardened, unhealthy yolk. Probably she had broken an egg some time ago, and the remains of this must have blocked the passage, and prevented other eggs passing out. Her kidneys were enlarged, and the tubules were filled with urates—the condition which results from too much animal food. The interior of the gizzard was black. I think the cat flour which was full of insects and worms may have been injurious. Some of these act as intermediate hosts of parasites or as carriers of disease germs. This fact is not usually realised. The danger of damaged food is not so much a risk of digestive disturbance, as the possibility that the insects may be the means of conveying some disease to birds.

J. M. Horsham. There was congestion of lungs, spleen and kidneys, and the lining of the gizzard was black. Could the bird have had any unsuitable food?

## THE FINANCIAL ELEMENT.

By JOHN MEEKINGS.

It is very diffidently that I approach so controversial a subject as the financial side of our industry, but constantly meeting with queries and criticisms in our Journal and in contemporaries, and receiving numerous anxious inquiries on the subject from time to time from prospective farmers, a statement of views may interest our readers.

Agriculture generally seems to be passing through a very critical phase, probably unprecedented in its history; it is quite clear that the more intensive culture of poultry will not escape.

To our readers and to thousands of people to-day, it is of vital importance that they be re-assured on the point:—

#### IS THIS A BUSINESS WORTH INVESTING IN?

Since the War, large numbers have commenced poultry farming, and the production of English eggs must be considerably higher than in pre-War days. Foreign eggs, too, are now being imported again in large quantities, which naturally adversely affects our markets. With eggs down to 4s. per 120, and remaining roundabout £1 for several months, and with the certainty of a lower fall next spring, no wonder that here and there the fear has sprung up that it will be impossible to make ends meet under such conditions, far less accumulate profits.

I read with interest Mrs. Rawson's lecture, published recently in "Eggs," and to my mind it is one of the soundest statements yet published; she does not under-estimate the cost. I am, however, a little doubtful about her figures re food and labour. Surely food per bird per week should not exceed twopence, and labour a penny. If it does, there will certainly not be sufficient margin of profit. The poultry farmer of to-day, if he farms on any scale at all, has to meet heavy claims in rent, rates, railway charges, etc. He needs to work hard himself till he becomes established and his policy must be one of severe economy. I am talking now of Commercial Egg Farming. In specialised work, there IS a bigger margin of profit, although many folk fail to realise the additional heavy work entailed. I wonder sometimes if the more simple procedure of a Commercial farm is not a more pleasant occupation than the sometimes exacting work of the specialist! The two classes should never be combined to my mind, unless the farmer can afford to run them separately.

**Poultry farming will yield satisfactory returns at all times**—of that I am convinced—BUT there are provisos. The farmer must possess keen business faculty—be physically fit—a lover of work for work's sake—and possessed of sufficient knowledge in stock keeping, housing and foodstuffs and of sufficient capital to establish himself. No easy standard to lay down, I know; very many so-called farmers to-day lack these essentials. Without them poultry farming offers no reward, and the man who persuades himself or is persuaded that this Industry is a rapid road to Fortune, may now take full warning. It is a hard grind for the first five years, and only pleasant to the lover of birds and open-air life. I am not concerned with the man with ad. lib. capital—he is a *rara avis* indeed—but with the man with a few hundreds only as his initial backing.

Mrs. Rawson is not far out when she limits the profit per bird to 5s., though I doubt if the future price of eggs will allow of this amount to the MAJORITY. Also one must bear in mind that in these days of excessive unemployment, the demand for eggs becomes a fluctuating one directly the egg exceeds 2½d. to the consumer. At the present time eggs are by no means plentiful, and yet the price is maintained at normal. I see no reason to fear the foreign egg. I abhor it with others, but I fear

more the haphazard poultry farmer (and there are numbers) who is responsible for the poor demand for English eggs as compared with Danish. The foreigner cannot improve upon our stock, nor are farm conditions better abroad than here; and in many cases the food problem is or has been as difficult. He scores in his methods of collection and sale, and his produce is finally handled by experts at the ports. Of course, the cost of freightage has always to be added to the foreign egg, and this cannot be small, when the collecting, sorting and final passage is considered; so that I feel justified in asserting THAT IF OUR PRODUCE BE RELIABLE, the foreigner can never out us. Ergo, the future poultry farmer must keep himself primed; science must play her part on the farm, both where stock and feeding are concerned. Many beginners have lost everything, simply because they failed to rear their chickens; others, because the food bills outweighed the egg basket; lamentable ignorance is often responsible for bankruptcy; sound training is essential. Sound stock is also vitally important, food market accessible, the demand for produce assured. Without these fundamentals there is no future in poultry farming, despite the golden story books so freely sprinkled on our book-stalls and the glib utterances of men who should know better. My experience proves that the minority succeeds and the majority fails—the latter often buying their experience too dearly. This is doubtless not peculiar to our Industry! I trust readers will not find undue pessimism in these remarks, but will allow me to reiterate that beginners walk warily, and those already in the swim brace themselves to new effort; it is not unlikely that we may yet find ourselves in the low ebb with the rest of our agricultural neighbours!

The very early days of a new industry often have alarmist and disturbing periods. The War, whilst it gave a boom to ours, at the same time created false impressions. For instance, not a few made big profits, both on Commercial and Specialist farms, and when the soldier came back to civil life he was tempted by these experiences towards an outdoor life, which promised to be both very pleasant and highly remunerative. In hundreds of cases he discovered too late that, like every other business, knowledge was needed, far beyond that which he had picked up in a few months' training, and to make matters worse the slump visited us—to the discomfiture of many.

During the first years of a man's start in the poultry business, periodical supervision should be invited by an expert—not a man who sees poultry and its intricacies from his study window, but one thoroughly accustomed to all the circumstances under which the beginner struggles. If this were possible there would be fewer failures. Now we readers of "Eggs" know the policy of this paper to be above reproach—it is run specifically for its readers, and we are fortunate in receiving for so little outlay the very practical and scientific help we so much need, ably rendered by our Editor and others who subscribe to its pages. Well, if the Industry were on the de-

cline, I maintain that one of the first symptoms would be a rapid fall in circulation; the fact that just the reverse is the case should re-assure readers and members of the Society, as also the right kind of prospective poultry farmer. I will go so far as to say that now that foodstuffs are so very much cheaper, and granted that we get the middleman to be content with less profit—that the yield from poultry products will give entire satisfaction and encourage the poultryman to extend, even under the clouds of the present agricultural depression. The average hen should provide 20s. worth of eggs per annum—costing from 13s. to 15s. in food, litter and labour. An egg is now not worth more than 2½d. wholesale if all things are taken into consideration.

These figures are based on present-day business findings, and are given in the hope that they may put the financial prospects of the poultry farming of the future in clear perspective.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### TWENTY-FIRST LIST.

Carried forward ... .. £819 8s. 10d.

	s.	d.
T. Bentham	5	0
W. Longwill	2	6
Anon	2	6
Anon	2	0
A. Ratcliffe	2	6
T. H. Barker	2	6
H. Heasman	40	0
F. H. Casemore	5	0
T. P. Slipper	5	0
E. M. Barker	2	6
T. E. Evans	2	6
J. A. G.	2	6
R. Jackson	2	6
W. T. Thompson	2	6
W. A. C. Adams	2	6
F. Wilkinson	2	0
Miss W. E. Clark	5	0
The Misses McTurk and Woolnough	40	0
Mrs. R. E. Negus	10	0
W. Green	10	0
Rev. A. J. King	5	0
H. Rasleigh (discount)	1	6
H. Rasleigh (discount)	0	7
H. Badcock	5	0
R. W. Craig	5	0
W. Edward King	3	0
J. W. Lancaster (2nd donation)	5	0
Mrs. M. D. Pierce Groves	42	0
T. Wainwright	6	7
Dr. Menzies (2nd donation)	40	0
E. Croft	57	5
J. Cowan	1	0
Miss M. Betton	5	0

F. G. B. Gardner	15	0
Miss M. A. Bolton	21	0
G. H. Manson	5	0
C. E. Buckle	2	6
C. Rapson	10	0
Mrs. W. F. Morrison	9	0
Lieut.-Colonel S. F. Cooke	10	0
C. C. Holt	2	6
C. C. Chittenden	10	6
E. C. Boucher (3rd donation)	69	9
W. Roberts	10	0
W. Draffen	10	0
Mr. Ogilvie	5	0
C. J. Berry & Son	10	6
Messrs. Perkins and Son	5	0
B. Bamforth	2	6
Dawson & Afton	10	0
J. Core	2	6
A. Green	4	0
Mr. Cambridge	2	6
Cheltenham Branch	45	0
C. Lacy Pittaway	2	6
M. P. H.	5	0
C. C. Bailey	10	0
Nomad	3	0

Total ... .. £849 17 8

### GENEROUS OFFERS FOR THE N.P.I. FUND.

S.P.B.A. £100.

Offers of stock and sittings of eggs continue to be received for the N.P.I. Fund from well-known breeders.

Twenty-two of the 50 White Leghorn cockerels offered by a breeder who "does not want a cheap advertisement" have been sold. They are March hatched, and are bred (second generation) from Mr. Tom Barron's pen, which took second place in the Missouri Laying Competition. At 15s. each they are a bargain, and the breeder gives 2s. 6d. on every bird sold, to the fund.

Mr. G. K. Pinder offers one sitting of eggs from his pen of Khaki-Campbell ducks. They finished ninth in the Bentley Test, laying 1,026 eggs, or an average of 205.2 in 10 months.

Mr. C. G. Brown offers two sittings of White Wyandotte eggs, separate or together, bred from hens with pullet records of 48—65 for the three winter months. Eggs average seven to the pound. Phenomenal for White Wyandottes. Delivery after February 1st.

Mr. L. Fearsides.—One sitting White Leghorn eggs, delivery to suit purchaser. Two weeks' notice required. They are from full sisters of a 278-egg hen. Mated to cockerel from a 288-egg hen, whose sire's dam laid 314 eggs.

Mr. Scatchard offers a sitting of R.I. Red eggs, from pen bought from Rev. N. Burgess and parents of his pen which have just won the Midland Test, beating the net pen of Reds by 98 eggs and value £1 0s. 2½d. more.



Mrs. Haslewood offers six Wyandotte cockerels, bred from dams with winter records of 77, 78, 74, 71, 68, 88, mated to a cockerel from Lady Supreme (300 2½ oz. eggs).

Mr. Morton offers one sitting of eggs from his pen of Buff Medways, including some from his pullet which has just won first prize at Tottenham U.P.S. Buff Redways are a new variety with promising utility points.

Mr. J. P. Wells offers a Croad Langshan cockerel, February hatched, bred from a dam with a record of 237 large dark brown eggs.

### THE S.P.B.A. DONATION OF £100.

The decision of the Council of the S.P.B.A. to vote £100 to the funds of the N.P.I., met with the cordial approval of members who were present at the Annual General Meeting at the Dairy Show. This brings the total contributed by our Association and its members to £951 11s. 5d.

The total sum subscribed at the time of writing is £4,086 9s. 3d. As Mr. P. A. Francis remarked at the General Meeting, there is no time limit, BUT there are many other Agricultural Societies anxious to get the grant, and it is quite possible that the Government will become impatient at the delay in subscribing such a comparatively small amount as £6,500, and withdraw the offer.

### APPLICANTS FOR MEMBERSHIP.

Tollington, S. H., Woodbine Apiary, Hathern, Nr. Loughborough.  
 Barker, H., Cross Street, Hathern, Nr. Loughborough.  
 Price, Chas., 29, Cranbourne Avenue, Birkenhead.  
 Longwill, Wm., Burrough, Melton Mowbray.  
 Jordon, E. H., 87, Reeves Road, Derby.  
 Lee, Geo. Henry, 202, Shaftesbury Crescent, Derby.  
 Wilson, Mrs. A. V., Kinson House, Kinson, Bournemouth.  
 Napier, Robt. C., Greater Felcourt, East Grinstead, Sussex.  
 Williams, Mrs. E. W. Carlton, Jack O'Dandy, Eastbourne.  
 Coombes, D. D., Mapsons, Siddlescombe Common, Nr. Chichester.  
 Gill, Geo., "Lyndhurst," 1st Avenue, Southbourne, Emsworth.  
 Aston, Arthur F., The Guildford Hotel, Sandwich Bay, Kent.  
 Gravatt, A. G., 275, Grove Street, Deptford, S.E.8.  
 Durrie, Alex., Rockville Pedigree P.F., Birkenhead.  
 Walker, W., Folderings P.F., Oughtsbridge, Nr. Sheffield.  
 Clarke, Miss M. M., Walnut Grove, Mousehole Lane, Millbrook, Hants.  
 Pickhaven, Wm. Henry, 14, Bloomfield Road, Burdett Road, E. Sheavyn, W. H., Coombe Fields, Stretton-under-Fosse, Rugby.  
 Crockford, Harold, 155, Newhampton Road, W. Wolverhampton, Staffs.  
 Graham, A. V., Smithy Brow Farm, Formby, Lancs.  
 Pennell, V. V., Lawn View Terrace, Fakenham, Norfolk.  
 Osburn, L. A., Winsley, Emsworth, Hants.  
 Pierson, Mrs. J. E. M., The Hut, Kingsdown, Box, Wilts.  
 Rudd, John W., Milehouse Lane, Newcastle, Staffs.  
 Shaw, E. M., Plas Isaf, Penmorfa, Portmadoc, N. Wales.  
 Barket, T. H., and Son, Bain Paddock P.F., Haverthwaite, Ulverston, Lancs.  
 Skudder, G. F., The Hermitage, Wadhurst.  
 Relf, S. E., 27, Sheale Crescent, Maidstone, Kent.  
 Farrar, J. W., The Croft, Dunnington, York.

### WANTED, 100,000 ADDRESSES.

We would like to post a sample copy of "Eggs" to every one in your district who takes, or is likely to take an interest in poultry. Will you help us? Just jot down the names and full addresses in your own district and post to us. We should be able to get at least another 10,000 readers by this means and many more members to the Association.

Poultry-keepers, assist us to help you.

Send your list to-day to Advertisement Manager, "Eggs," 94, Farncombe Street, London, S.E.16.

Pridham, Jess, Lower Lane, Upper Longdon, Rugeley, Staffs.  
 Richardson, A. J., East Street Farm House, Addington, W. Malling, Kent.  
 Stubbs and Co., Corn Merchants and Millers, Stone, Staffs.  
 Camm, W. B., 19, Derby Road, Birkenhead.  
 Curragh, Hugh A., The Residence, Magherahanlet, Ballynahinch, Co. Down.  
 Taylor, Wm., Grimness, South Ronaldshay, Orkney.  
 Corrie, David, 6, Carlton Hill, St. John's Wood, London, N.W.8.  
 Fox, G. A., Covertside, Hockley, Essex.  
 Ashdown, P. J., Greenside, Ewhurst, Surrey.  
 Weller, T. E. G., Hillcrest Poultry Farm, Church Road, Basildon, Essex.  
 Cockell, C. F., The Oaks, Hever, Kent.  
 Thomas, A., Aberglaslyn, Loose, Nr. Maidstone.  
 Thomas, Herbert, Pemin Farm, Wardle, Nr. Rochdale.  
 Gardner, F. G. D., Wayford, Stalham, Norfolk.  
 Basnett, S. H., Halton Brook Utility P.F., Runcorn, Cheshire.  
 Thorne, Mrs. R. F., Gotton Farm, West Monkton, Taunton.  
 Nixon, Wallace, Challock P.F., Challock, Ashford, Kent.  
 Manfield, Miss N., Wood Barton, Cullompton, Devon.  
 Buckle, C. E., 66, Porchester Road, Woolston, Southampton.  
 Randles, Mrs. G., Oak Villa, Bicton Heath, Nr. Shrewsbury.  
 Humphrey, J. A. M., Craigton House, Cults, Aberdeenshire.  
 Newman, J. L., The Parsonage, Bottisham, Cambs.  
 Bertram, Miss Mary, Yafford House, Shawell, Isle-of-Wight.  
 Horsley, R. G. C., West Fields, Wresslesham, Farnham.  
 Redding, W., 97, Queen Street, Leamington Spa.  
 Rowe, Thomas Henry, Polwhele P.F., Trevemper Bridge, Newquay.  
 Cox, Neville, Neville Lodge, Newbridge Crescent Wolverhampton.  
 Calderhead, T. A., Blairingone, Dollar, Scotland.  
 Pepperell, F. W., Chillington, Kingsdown, S. Devon.  
 Woods, G. R. (Jr.), Sefton Cottage, Kirkby, Liverpool.  
 Kaye, Frank H., "Roydwood," Kirkburton, Huddersfield.  
 Kelly, W., 6, Westcott Road, Anfield, Liverpool.  
 Miss H. M. Stewart, The Rectory, E. Hanningfield, Nr. Chelmsford, Essex.  
 Lawson, F. M., Sevenacres, Clymping, Nr. Littlehampton.  
 McLeod, T. K., Dene Bungalow, Staplehurst, Kent.  
 Wilson, R. Ed., "Southlands," Mayhull, Liverpool.  
 Lady Olivia Trevor, Tyingham Cottage, Newport-Pagnell.

### NOTICE TO ADVERTISERS.

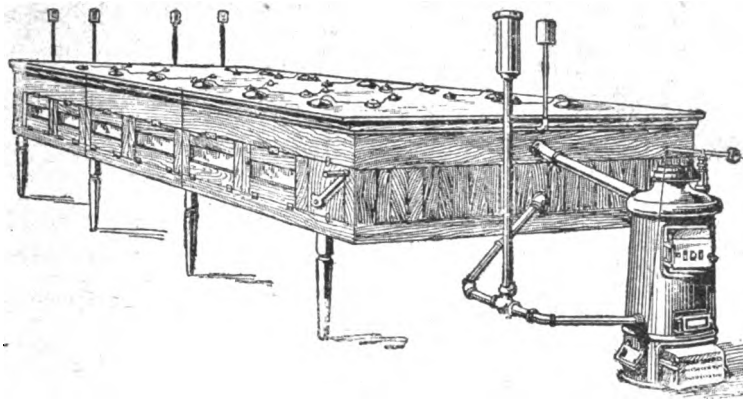
We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 8d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

### SPECIAL LIME STONE GRIT. NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits. (Reg.).

3s. 6d. per cwt., 66s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbreak," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It.."

### CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt s. d.
CHAMPION MIXTURE	20 0
A.1 MIXTURE (with or without Maize)	18 0
X.B. MIXTURE	17 0
X. MIXTURE	16 0
CLIPPED OATS	18 0
OLD WHEAT	18 0
WHEAT	16 6
CHAMPION KIBBLED MAIZE	18 0
CHAMPION LAYING MEAL	21 0
CHAMPION DRY MASH	21 0

Carrriage Paid, England and Wales,  
Scotland 2/- per cwt. extra.

NO DUST. NO WASTE. Mixed and Well  
Cleaned by Special Machinery.

For other Specialities see Price Lists.

Samples and Price Lists free on  
application to

**WILLIAM BRINKLER & SONS, Ltd.**  
Pigeon and Poultry Food Dept.,  
(3) CLAPHAM GRANARIES, LONDON, S.W.4  
Telephone: BATTERSEA 211.

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.  
WHITE LEGHORNS.**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

### STOCK COCKERELS.

Full Pedigree supplied with every bird.

Speciality—Bred from pen averaging over 400 Eggs in 2 years. From 18/- each.

A few Pullets all ages from 12/6.

Recorded Breeding Hens.

# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note: OUR FOODS CONTAIN COD LIVER OIL

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and Cod Liver Oil began.

	s. d.	
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ... ..	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil)
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ... ..	17 6	Poultry Mixture ... ..
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ... ..
Alfalfa Meal ... ..	22 0	Kibbled Maize (Screened) ... ..
Green Clover Meal ... ..	18 0	Rearall 1st Chick Feed ... ..
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ... ..	21 0	Thryvon 2nd Chick Feed ... ..
Meat Meal (65 per cent. Alb. and Fat.) ... ..	23 0	Matua Chicken Mixture ... ..
Chick Rearing Meal (Special), impregnated with 14 per cent. Cod Liver Oil (no milk required) ... ..		Yeast ... ..
Carriage Paid.		Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
Mr. BRUCE WILCOCK, A.P.F.D.,  
as our Poultry Expert. Should you be in  
any difficulty we will be pleased to assist you.  
Our information bureau is free to all.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS**

### NOTE NEW PRICES.

#### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.	s. d.
Dried Skimmed Milk ... ..	24 0	
Sussex Ground Oats ... ..	16 0	
Maize Meal ... ..	11 0	
Maize Gluten Feed ... ..	12 0	
Pea Meal ... ..	16 0	
Bean Meal ... ..	16 0	
Meat Meal (Fine Ground) ... ..	22 6	
Fish Meal (Best White) ... ..	23 6	
Biscuit Meal (Fine) ... ..	22 6	
Clover Meal ... ..	18 0	
Broad Bran ... ..	12 0	
Middlings (Best Fine White) ... ..	14 0	
Middlings (English) ... ..	12 0	
Feed Wheat (Best English) ... ..	14 0	
Feed Oats (Best English) ... ..	15 0	
Kibbled Maize (Sifted) ... ..	12 0	
Flint Grit ... ..	5 0	
Limestone Grit ... ..	5 6	
Oyster Shell ... ..	8 0	
Cockle Shell ... ..	6 6	
Rolled Wheat (for Chicks) ... ..	15 0	
Dried Yeast ... ..	20 0	
Pinhead Oatmeal ... ..	26 0	
Whole Oat Groats ... ..	26 0	
Broken Rice ... ..	16 0	
*No. 1 Chick Feed ... ..	22 0	
Mash for Laying Hens ... ..	16 0	

(Both the latter are Mr. Tom Newman's Recipes.  
FREE ON RAIL, HEATHFIELD or LONDON.

|| 5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION. ||

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
**Britannia Mills,**  
**HEATHFIELD, SUSSEX.**

### THESE ARE STRAINS OF QUALITY

Buff Rocks, Rhode Island Reds,  
White Wyandottes, White Leg-  
horns, Aylesbury and Runner  
Ducks.

**CAPT. R. C. BEATTIE**

Riverside P.F. Totnes, S. DEVON.

TRAP-NESTED PEDIGREE STOCK.

### Your Chance!

My BUFF ROCKS LAID IN NOVEMBER,  
DECEMBER, JANUARY, FEBRUARY.

MARCH, inclusive, an average of

**108 2oz. EGGS per BIRD,**

The two Best Birds laid 117 each. That is  
only five months' laying, and I trapped the  
birds myself all the time. You should not  
miss this

### OPPORTUNITY

To obtain such Splendid Blood. Only six  
Cockerels left. 30/- each. Now booking.

**EGGS** MATING LIST FREE. **CHICKS**

### REDUCED PRICES.

#### CLARK'S PURE SUSSEX GROUND OATS

#### GUARANTEED

Manufactured in an old-fashioned  
Sussex Mill by original  
process.

7lb. Bags ... ..	3 6
12lb. Bags ... ..	3 0
28lb. Bags ... ..	2 6
56lb. Bags ... ..	2 4

#### PRICES PER CWT.

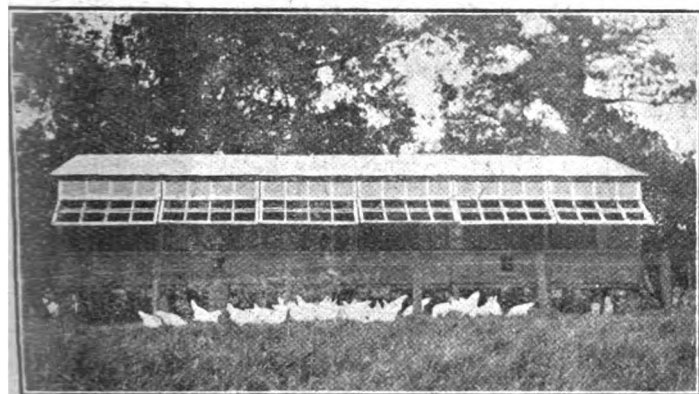
1 cwt. ... ..	25 0
3 cwt. ... ..	24 0
6 cwt. ... ..	23 0

Carriage Paid nearest Station in  
England and Wales.

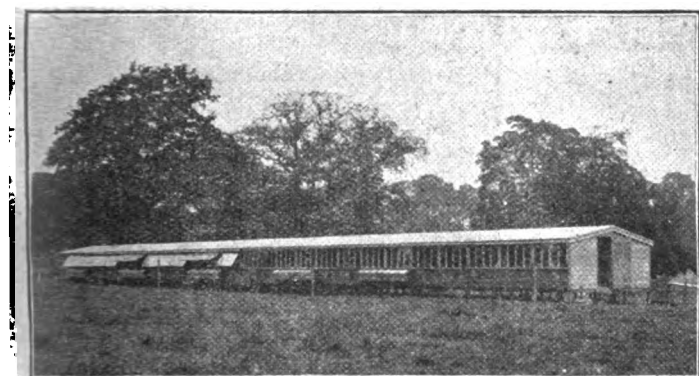
Bags included. Cash with order  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd**  
**56, HIGH STREET,**  
**LEWES, SUSSEX.**

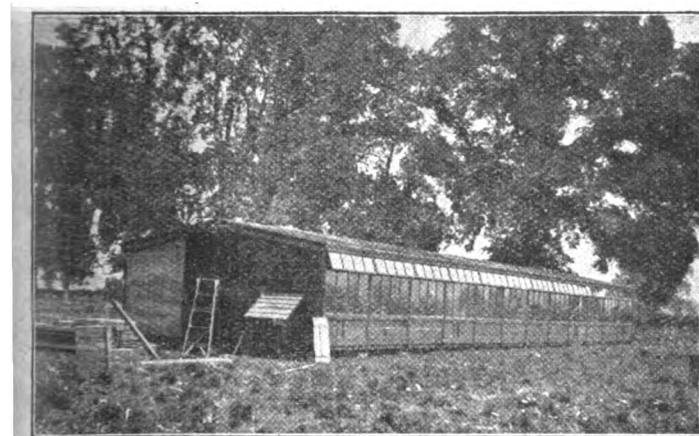
# SUPER HOUSES for SUPER HENS.



Six Units: 36ft. x 16ft. All-Purpose Model.



Twenty-seven Units: 135ft. x 16ft. All-Purpose Model.



Twelve Units: 60ft. x 15ft. All-Purpose Model.

## GUARANTEED GALE & WEATHERPROOF.

Patented and Reg. Design.

One of three houses supplied recently to Misses Ransford, Perseverance Farm, Pensford, near Bristol. Height 6 ft. x 7 ft. 6 in. Equipped with 6 inside nest blocks, 6 hinged front sashes, each 5 ft. x 3 ft., and fixed hood sashes. Floor lights to full length of house in rear.

A span-roofed house recently supplied to Capt. A. B. Parker, R.N. Standing on oak piles, divided into 5 sections of 25 ft. x 15 ft., to take 100 birds each, with a 10 ft. x 15 ft. section as food store. Inside and outside nest blocks are fitted, also broody coops in rear under eaves.

One of 5 identical houses made to the order and specifications of Major W. Hayland Wilson, Longparish, Hants. Equipped with inside nest blocks; dropping boards and perches, made to Major Wilson's own designs.

Houses made with patented sash and panel fittings, allowing variable settings to suit seasonal work.

**SPECIAL INCUBATOR-BROODER AND LAYING HOUSES, BREEDING PENS, etc.**

When writing for Particulars state requirements.

**EXTENSIBLE UNIT BUILDINGS.**

**W. H. COLT, M.S.P.B.A., M.N.U.P.S., Bethersden, KENT.**

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.)

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of Lime  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 60 WHITE LEGHORNS 1922 PULLETS.

For Immediate Disposal.

April hatched. Cam-Darracott strain. Will make splendid birds, and should commence laying towards end of month.

18/- Each, or £50 the Lot.

Carriage paid. Approval against remittance or deposit.

Crates to be returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.  
QUENIBOROUGH, near LEICESTER

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

### Mr. Cecil L. Byrne,

Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Bag

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.



## Scientific Poultry Breeders' Association

*All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.*

### ANNUAL GENERAL MEETING.

The Annual General Meeting of the S.P.B.A. was held in the Club Room at the Agricultural Hall, on Thursday, October 19th. Mr. J. G. Kitson presided over a large attendance of members.

The President expressed the pleasure he felt at seeing so many members present, and extended them a hearty welcome on behalf of the Council. He remarked that they were very pleased to have the use of this room, which was far more convenient than the one they had last year, but even now there was not seating accommodation for such a large gathering, but it had been thought advisable to hold the meeting at the Dairy Show; the Council would have to consider in the future the advisability of holding it elsewhere. If the membership continued to increase at its present rate they would have to look out for some suitable building, such as the Albert Hall. In making the opening address at such a meeting it is difficult to avoid treading on the toes of those who are to follow, with the Secretary's report, the Treasurer's, and that of the "Egg" Committee. But he should be expected to say something of the work of the past year, and the position in which we find the S.P.B.A. to-day.

First, then, let him say that the last financial year, which ended on August 31st, was by far the most successful of any which we have had so far, and that the new year beginning on September 1st, bids fair to set up another record.

During the last year we have had a continual flow of new members, which kept on right up to the end—over 100 joining in August.

The influence of the S.P.B.A. has also extended, and the way in which the Council has been backed by its members has been very gratifying. The members have been asked more than once to put their hands in their pockets, and they have not pulled them out empty.

Last year, when notices that subscriptions were due were sent out, they were asked to contribute to the National Poultry Council, and so readily and heartily did they respond that the S.P.B.A. list was by far the largest sent in, amounting to over £100. He thought that showed not only that members were willing to respond to the call of the Council, but that they realised that the N.P.C. could do useful work to help them in many ways. That it has done so will be generally acknowledged, but it could have done very little without the funds, their generosity augmented to such an appreciable extent.

Having subscribed so generously to the N.P.C. they were next asked for their help in bringing the National Poultry Institute into being, and again they had responded nobly. Personally he thought the £6,500 ought to have been raised months ago, but at any rate no one can say that the S.P.B.A. has not done its

share. We led the way last year in the N.P.C. Fund, and want to be in front again at the top of the list.

During the year their delegates to the N.P.C. attended all the meetings held, and have taken an active part in the work. They had a representation on every sub-committee and three on the Executive Committee out of ten elected members.

This, he thought, should be highly satisfactory to members of the S.P.B.A., but there was just one fly in the ointment. He must not call it a grievance, because the fates have been against us in this particular instance. We have no representative on the Poultry Advisory Committee. He mentioned this not in any spirit of greediness for place or power, but simply because he thought such an important body as the S.P.B.A. ought to be represented.

He said just now that the influence of the Association had been extended, and one of the reasons he gave for this is the formation of the N.P.C., which, he believed, is one of the best things that has happened in the Poultry Industry. They were very proud to have Mr. Edward Brown with them to-day, for to him is chiefly due not only the existence of the N.P.C., but also the near prospect of the Institute. Finally, he thought they could congratulate themselves upon a very satisfactory year's work. They had been able to help in laying foundations, from which good results will arise to the lasting benefit of the industry they are out to help, and last, but not least, the financial position is absolutely sound.

#### SECRETARY'S REPORT.

Since it has been my privilege to act as Secretary of your Association, I have always been fortunate in being able to present a favourable report. The past year has been no exception to the rule. The growth in membership has been truly astonishing. This is all the more gratifying as we have undertaken little or no propaganda work, and at least 75 per cent. of those who join us do so on the recommendation of old members. During the past six weeks 384 new members have been elected. That is very great in excess of the record for the same period of any previous year. Satisfactory, as this undoubtedly is, may I venture to point out that the success of the S.P.B.A. has been largely due to the fact that we have always endeavoured to keep in close personal touch with our members. This is becoming more difficult with the greatly increased membership, and we must take the necessary steps to meet this difficulty. Last year I stated that over 18,000 letters had been received and answered, with an increased membership these figures have been greatly exceeded this year. It is not for me to make a complaint, but again I must say a very large number of these letters are unnecessary, and frankly childish. May I say that many members would be far more successful if they were able to help themselves just a little bit more, or to bring a little more of that common-sense to play which they would employ in any other business in which they are engaged. We are always ready and willing to advise and help our members, but the constant repetition of childish questions which have been answered times without number in "Eggs," occupies time which might be far more usefully employed. It is not only the novice who asks these questions, but

many of those whose experience should render them unnecessary if they hope to make a livelihood from poultry-keeping.

There is a humorous side; of course. A lady wrote and corrected me for spelling pullet with only one L., and spelt cockerel with L. A gentleman wrote: "My hen laid this egg this morning. It stunk so that I am sending it to you."

The Discount System has proved an immense advantage to members. To the end of August we had bought £16,778 0s. 0d. worth of foods and appliances for our members, an increase of over £7,600 worth over the previous year. When it is remembered that there has been an appreciable decline in the cost of both food and appliances, it will be realised that these figures scarcely indicate the increased business done. When the scheme was started we had some difficulty in persuading firms to make concessions. Now the tables have turned, and they are approaching us, and are eager to have their names on the list. The whole scheme has worked very smoothly and satisfactorily; necessarily it has involved an enormous amount of work, and we have had to increase our staff. Soon we shall be compelled to have a new office, for the present one is inadequate. All other expenses of the office, including the salaries of the staff engaged in the work of the discount scheme, have been met from it.

The Council has taken a prominent part in the work of the National Poultry Council, and you are represented on all the Committees, and also on the National Diploma Board. Your delegates are greatly impressed with the beneficial work the N.P.C. is doing. You are aware that one appeal for support for the National Poultry Institute Fund, made through "Eggs," has been generously responded to by our members, who have to date contributed £845. That is a sum of which we may justly feel proud, and I have no doubt that we shall soon be able to claim from Mr. Brook the £100 which he has promised conditionally on our raising £1,000. I should mention here that the White Leghorn pullet, given by Dr. Menzies to the fund, and which laid 303 2½oz. eggs in her pullet year, has been purchased by Mr. Stanley Street-Porter for £22.

The Chairman of the "Eggs" Committee will submit to you his report, but I should like to take this opportunity of sincerely thanking those who have so kindly contributed to its columns. I can assure them that their efforts have been greatly appreciated by our readers, and they have been a great help to me as Editor.

Mr. P. L. Johnson moved the adoption of the report. This was seconded by Mr. Lester Spurgeon, and carried.

#### TREASURER'S REPORT.

The President called upon the Treasurer to submit his report.

Mr. Mudie-Draper congratulated the meeting on the very satisfactory balance sheet he was able to present. They had now a very large balance at the bank, and their liabilities were nil. (The balance sheet, together with that of "Eggs," will be published in the Annual Register). Referring to "Eggs," Mr. Mudie-Draper said that their very success had caused them a most anxious time, for the circulation had risen so rapidly, and as members were aware, the cost of pro-

ducing the paper was greater than the price for which it was sold. Now that difficulty was over, in two or three months the liability incurred in publishing the paper would be entirely wiped out. Mr. Mudie-Draper then moved the adoption of the report.

This was seconded by Mr. F. W. Wait, who warmly congratulated the Treasurer on his report, and the very lucid manner in which he had presented it. He remarked that in time the S.P.B.A. would have money which would be very usefully devoted to research work.

The report was adopted amidst applause.

#### "EGGS" COMMITTEE'S REPORT.

The Chairman of the "Eggs" Committee then presented the following report:—

The Committee is pleased to be able to report that the prediction made in this statement at the last Annual Meeting that we should have no need to worry over the financial position of "Eggs" by the time this meeting was held, has been fulfilled.

The revenue from subscription, sales, and advertising has greatly increased, and the circulation is now about ten times larger than it was when we took it over. It will, therefore, be seen what a much better advertising medium it has become for those members who have either stock birds, day-old chicks, or eggs for hatching to sell, and this applies, of course, to those traders who advertise houses, appliances, foods, and other goods used on a poultry farm.

It must not be thought that the results attained have been easily come by—as a matter of fact the Committee have had many difficulties to contend with, and many anxieties to face, as well as financial responsibility. Even now the loss which has accumulated has not been entirely wiped out, but it will be only a matter of two or three months before it disappears.

Reference has once more to be made to the action in which we were involved. Members subscribed most generously to the Defence Fund, but the costs of the action amounted to £200 more than was subscribed, and that sum had to be found.

Nothing has been taken into account for the goodwill of the paper, but you may be interested to hear that we had an offer of £2,000 for it when the circulation was only about half what it is now.

In spite of adversities the Committee has always had faith in "Eggs," and was confident that in the long run it would not only pay to produce, but be the means of providing the S.P.B.A. with funds to extend its sphere of usefulness, and it is, therefore, with great pleasure that they present this report.

Mr. Kitson formally moved the adoption of the report, which was seconded by Col. Hardy and carried.

*National Poultry Institute.*—The President then announced, amidst great applause, that the Council had decided to vote the sum of £100 to the National Poultry Institute Fund. He was pleased to see Mr. A. H. Brownson, the Hon. Sec. of the N.P.C., present, and he would ask him to say a few words.

Mr. Brownson, who was loudly applauded on rising, said that it was with the greatest pleasure he was present at the meeting as a member of the S.P.B.A. He was proud to be a member. The work of the Association had been most excellent, and was justly appreciated. They had come most generously to the help of the N.P. Council at a most critical time. They had responded

nobly to the appeal for the funds for the Institute. If others had had half the generosity, half the enterprise, and half the energy of the S.P.B.A., the whole of the money required would have been raised weeks ago. He thanked them a thousand times for what they had done. We must work until we get the Institute, and each one of us must make a personal effort.

*Hon. Life Members.*—The President said that he had a very pleasant announcement to make, they desired to recognise the very great services rendered to the Industry by Mr. Edward Brown and Mr. P. A. Francis by electing them HON. LIFE MEMBERS of the S.P.B.A. He need hardly speak of the great services these gentlemen had rendered to the industry. Mr. Brown had spent his life in working for its progress, had travelled the world over in its interest. One of his greatest achievements had been the formation of the National Poultry Council which had done so much to unify the industry, and now he hoped he would see his efforts crowned by seeing the National Poultry Institute an accomplished fact. He first had the pleasure of meeting Mr. Francis in Ireland, he was working heart and soul for the industry, and his appointment to the Ministry of Agriculture was warmly welcomed.

Mr. Brown, who was most cordially received, said: I thank you all from the bottom of my heart, the honours of life are not of the material things, but this has come to me in a very pleasing way, from a Society which has done such great work for poultry keepers. Humility is the characteristic spirit of the S.P.B.A., that is a spirit which should characterise all poultry keepers, but it was not always in evidence; as a rule the man with six months' experience was ready to teach everybody. The S.P.B.A. had been and was one of the greatest forces in the progress of the industry.

Mr. P. A. Francis, who received a hearty welcome, said that at the last Annual Meeting he attended as a representative of the Ministry of Agriculture, now it was as a member of their Association. He thanked them heartily for the honour. Officials as a rule got more kicks than ha'pence when things went wrong, and very little appreciation when they were right. Therefore he was the more grateful to them. The progress of the S.P.B.A. had been one of the romances of the Poultry Industry; he thought the reasons were that the Council was composed of business men and practical men. Their Presidents had always been capable men, and then they had their wonderful little paper, "Eggs." Also they had the loyal support of their members, without which their success would have been impossible. With regard to the Poultry Advisory Committee, the Ministry were powerless to alter its constitution, but he hoped that in the course of time they would be able to welcome a representative of the S.P.B.A. on it.

*Resolutions.*—The Secretary then read the following resolutions. He explained in reference to No. 1 that the vast majority of members enclosed postage; of the sum of £119 1s. 7d. nearly £70 was expended on the postage of 4,500 copies of the Register. The remainder of the expenditure on postage could hardly be avoided, most of it was incurred in the ordinary

business of the Association. With reference to the second resolution, he must ask the meeting to leave the publication of these papers to his discretion as Editor. The third resolution stood in the name of Mr. Mudie-Draper. He said the rule caused him a lot of trouble; they did not register pullets, because the Council had decided not to issue a supplement to the Register, and as the Register was published in December the rule was useless. A letter from Messrs. Thomson Bros. was read protesting against the abolition of the rule, they insisted on the necessity of the rules being very strict indeed. Mr. Mudie-Draper said they had quite misunderstood him; there was no intention to relax the rules, but this one as it stood was useless. The Chairman then put the resolution to the meeting, and it was carried without dissent.

Mr. Harold Paine spoke in favour of his resolution that facilities should be given for the registration of ducks in the 1924 annual Register. After a short discussion the resolution was carried with only two dissentients.

Mr. T. J. Wainwright's resolution found no seconder.

Mr. G. C. Heseltine accepted an amendment to his resolution, which was agreed to.

A hearty vote of thanks to the Chairman proposed by Mr. A. Harold closed the meeting.

#### RESOLUTIONS.

By Mr. J. A. Cowan.—(1) "Considering the sum of £119 1s. 7d. stated in last year's Balance Sheet to be excessive for postage, I beg to move that: All correspondents (members and non-members) must enclose a stamped addressed reply envelope. (This, of course, in addition to any fee charged non-members)."

(2) I beg to move "that papers read at Branch meetings be published in full in a subsequent issue of 'Eggs' (provided the writers of papers are agreeable)."

By Mr. Mudie-Draper.—"That Rule 6 in Rules for Guidance in Mating and Breeding Stock, which reads, 'If pullets are used for Stock they must have first given a winter average of not less than 30 eggs from October 15th to January 15th inclusive, or not less than 40 eggs from November 1st to February 1st inclusive. This rule is very strict indeed,' be deleted."

By Mr. A. Harold Paine.—"That it is advisable that in the Register for 1924, facilities shall be given for the registration of Ducks."

By Mr. T. J. Wainwright.—"Proposed that, in view of the fact that the Council's time is entirely occupied on matters connected with the actual business side of the Association, an Outer or Greater Council should be formed consisting of members residing at various centres in the British Isles, whose duties would be: (1) To arrange Lectures and Demonstrations; (2) to assist members requiring information and thus ease the work of the Secretary; (3) to keep Secretary informed on all matters of importance or interest to the Industry or S.P.B.A., such as outbreaks of disease; names of vendors of stock, food, appliances, whose local reputations leave much to be desired, etc."

By Capt. G. C. Heseltine.—“That, in view of the advance in the Science of Genetics as applied to fecundity in fowls since the drawing up of the Rules for the Guidance in Mating and Breeding Stock, the Council be asked to take immediate steps to revise rules.”

### COUNCIL MEETING.

A meeting of the Council of the S.P.B.A. was held at the Memorial Hall, Farringdon Street, E.C., on Tuesday, October 3rd, the President, Mr. J. G. Kitson, being in the chair. Present: Mrs. Hunter, Lieut.-Colonel Hardy, Messrs. P. L. Johnson, J. Smart, Lester Spurgeon, E. Bostock Smith, A. Harold Paine, the Treasurer and Secretary.

The Secretary reported that 220 new members had been elected during September. This was greatly in excess of any previous records for the month. He had attended a meeting of the newly-formed Bath and Bristol Branch, which was going strongly, and also, with Mr. Meekings, a conference with the Liverpool and Wirral Branch, at Liverpool. Both these branches were making good progress, and the conference had been a great success.

The Treasurer's report was then submitted, and the satisfactory financial position was, said the President, a matter to congratulate themselves on.

**AFFILIATION.**—Application to the Association was received from the Tottenham Utility Poultry Society, and the Deptford Utility Poultry Society. After careful consideration, the Council decided that they could better assist the two societies if they were untrammelled by affiliation, and the Secretary was instructed to write to that effect. It was further decided that after this date it was not advisable for the S.P.B.A. to accept affiliation from other societies.

**NATIONAL POULTRY INSTITUTE FUND.**—It was unanimously agreed, on the proposal of Mr. P. L. Johnson, that the Council should contribute the sum of £100 to the N.P.I. Fund.

**HON. LIFE MEMBERS.**—As a mark of recognition of the great services rendered to the Poultry Industry by Mr. Edward Brown, F.L.S., the Hon. Sec. of the National Poultry Council, and Mr. P. A. Francis, O.B.E., of the Ministry of Agriculture, the Council unanimously agreed to elect these gentlemen hon. life members of the S.P.B.A.

The further proceedings of the Council were devoted to the arrangements for the Dairy Show and the Annual General Meeting.

### THE LANCASHIRE AND CHESHIRE LAYING TEST.

#### SOME FINE RECORDS.

As announced in our last issue, the sale of the birds competing in the Lancashire and Cheshire laying tests will be held at the Talbot Mews, Blackpool, on Saturday, October 28th.

Some excellent records were made at the tests, and if any of our readers are out for new blood, they

would do well to consider the advisability of purchasing some of the birds which will be offered, they will be a good investment. Mr. W. Hammett, The Myrtle P.F., Blackpool, who ran the Lancashire test, or Mr. J. H. Mather, Paddock Road, Audlem, Cheshire, who was responsible for the Cheshire test, will gladly execute all commissions free of charge. The birds have been run in flocks of 100, so that the record for the 48 weeks of the test is all the more interesting. Our readers may rest assured that no attempt has been made to “force” the birds. It is safe to say that had they been run in small lots some of the individual records would have been greater than they are.

We note the following records of some of the birds offered:—

**White Leghorns.**—Mr. W. Robinson: Total, 249; Winter, 87; First grade, 236. Rev. Burgess: Total, 216; Winter, 90; First grade, 215. Mr. H. Williamson: Total, 204; Winter, 62; First grade, 202.

**White Wyandottes.**—Capt. Heseltine: Total, 225; Winter, 76; First grade, 224. C. W. Sheppard: Total, 206; Winter, 54; First grade, 201. A. Buckley: Total, 193; Winter, 43; all first grade.

**Black Leghorn.**—O. Rawlinson: Total, 234; Winter, 57; First grade, 234. C. W. Sheppard: Total, 204; Winter, 39; First grade, 199.

**Ancona.**—E. Bowles: Total, 195; Winter, 46; all first grade.

**Black Leghorn.**—S. Street-Porter: Total, 190; Winter, 68; First grade, 190.

**R.I. Reds.**—G. Dawson: Total, 227; Winter, 89; first grade, 218. J. K. Peach: Total, 215; Winter, 66; First grade, 214.

**Light Sussex.**—Dr. Phillips: Total, 238; Winter, 87; First grade, 238.

AS ANNOUNCED ABOVE, THE SALE WILL TAKE PLACE ON OCTOBER 28th AT THE TALBOT MEWS, BLACKPOOL.

### BOURNEMOUTH BRANCH.

The usual Monthly Meeting of the Branch will be held on the 1st November, at 6.30 p.m., at St. Peter's Institute, Bournemouth, when a lecture will be given by the President, Dr. Baldwin, on Poultry matters.

There will also be on this occasion a Table Show of Eggs, open to members only. Mr. Harding will officiate as judge. There will be three classes as follows:—

1. Best Six Brown Eggs.
2. Best Six Tinted Eggs.
3. Best Six White Eggs.

Prizes will be given, subject to sufficient entries being received to cover the cost of them. Entrance Fee, 1s. The eggs to be sold afterwards by auction, and the proceeds given to the S.P.B.A. Fund for the National Poultry Institute. Will members please send entries to the Hon. Sec. as soon as possible.

Members are requested to send in their subscriptions at their early convenience.

## S.P.B.A. AT LEICESTER SHOW.

The Council of the S.P.B.A. have decided to have stand at the Grand National Poultry, Pigeon and Rabbit Show, to be held at the Junior Training Hall, Aylestone Road, Leicester. Colonel Hardy, Mr. E. J. Meekings, Mr. Fred Wait, Mr. Leslie Spurgeon will be in attendance. If any members in the district are willing to assist at the stand we shall value their services.

The stand at the Dairy Show proved very attractive, and everything exhibited there will be at Leicester.

## THE SPONGIA CURE FOR ROUP.

By "PEM."

Roup can be quickly cured by the application of Spongia, at least this has been my experience, bought all too dearly during the last six months.

How many people have heard of Spongia, I wonder? I have read the poultry press pretty closely for seven years, also poultry books and columns about roup in its various forms, but never a word did I see about Spongia until last May, when a friend sent me some to try, in the hope of saving some of my birds. Afterwards I found it had been written about and used in America for years, with the utmost success.

Mr. Newman has asked me to write about my experiences with Spongia, because he hopes it may be of great use at the present time—a cold, wet autumn is the time when outbreaks of Roup are most frequent—and I do so with pleasure, because I do not wish others to suffer the losses that I have from this disease.

We were gaily trapping a flock of 350 White Leghorn pullets early in the year, when my poultryman gave the warning. We applied the routine remedies, and the house was put out of bounds except to one attendant and myself. The worst cases were instantly killed as they were taken from the trap-nests, but the disease romped through the flock like fire. It was impossible to treat each bird individually, as they nearly all had it, and a few nights a week at this game, with screaming Leghorns, soon turns the doctors crazy, and renders them quite unfit for work the following day. The position became so hopeless that I finally decided to destroy all the birds. This was done after all the stock remedies had been tried, and had failed; it was also an endeavour to save the breeding pen of 350 valuable hens and the several hundred chicks that were housed not far off.

Eventually the disease broke out in the breeding pen. Here its progress was not so rapid, but only one-third of the flock survived its ravages, and finally most of the later hatched chicks succumbed.

Towards the close of the epidemic this friend sent me some Spongia tablets to try. His hobby was homoeopathy, and he reasoned thus: "Roup is akin to croup in young children, and we give Spongia with instant success, and relief to the patient."

So we took three hens, bad cases, one with a large scab over the eye, another with a badly swollen face,

and the third with her mouth so horribly full of the loathsome growths that we had decided to kill her.

They were put in a small house by themselves, and three or four tablets given at intervals to each bird every day direct into her mouth. The result was almost instantaneous; if it had not been so we should have increased the ration of tablets, as it was we decreased them gradually, until the birds were cured, which took not more than seven days.

From this time on we have the upper hand of the epidemic, and dosed the flock as follows: 20 to 30 Spongia tablets dissolved in half a gallon of water that had been boiled overnight to 100 birds. This half gallon was placed in the drinking troughs, and the birds let out of their house first thing. They were not fed till half-an-hour after. They all went to quench their thirst, and all, or nearly all, must have had some of the water. As soon as the liquid was cleared up fresh pure water was given. Spongia in liquid form does not keep its curative properties for long, hence a speedy consumption of the liquid is necessary for the best results, which in our case were excellent.

I feel sure that had I known of Spongia in the beginning of this outbreak, it would not have been necessary to destroy a single bird.

Later on in the season my four month old pullets started an epidemic of "wet eye," another form of roup, I believe. In each case Spongia effected a cure in three or four days. We again administered the tablets direct into the birds' mouths, and never touched the eyes at all.

In obstinate cases of swollen face I have given two tablets per diem, and painted the face and inside the cheek with tincture of iodine once a day, and established a cure in 10 days, and, of course, there is nothing like tincture of iodine painted on the spots inside the mouth and throat if you are treating the birds individually, especially if you first make the bird swallow two Spongia tablets.

Spongia is a homoeopathic remedy of long standing. It is a preparation of burnt sponge; it is quite harmless; it is given to infant children, and my own staff have taken it freely, as a preventive, I suppose! It is obtainable of all homoeopathic chemists of repute, and our Secretary can supply the addresses of several in various parts of the country.

It is cheap considering its simplicity of administration and its speediness and surety of action. I am giving it twice a week in the drinking water to all my birds as a preventive and Milton in the water on other days. Disinfectants should not be given the same day as the Spongia.

The preventive mixture I am giving is as follows: One Spongia "30" tablet dissolved in 15 tablespoonfuls of water that has been previously boiled and allowed to go cold. One tablespoonful of this mixture is a dose for a human being, and it would do one bird no harm if it drank the lot. So that for 100 birds seven tablets dissolved in 52 ounces of boiled water would be the ration. If this is given twice a week fourteen tablets would be required, and no one can say it is an expensive remedy at about 15s. per thousand tablets, and I feel sure it will go far to stamp out this disease from our flocks.



In conclusion, Spongia is made in several strengths. I used principally what is known as Spongia "30." A very much stronger dose is Spongia "3." I believe the price is the same, in which case "3" would go further than "30," but a curious fact about homoeopathic remedies seems to be that the weaker the dose the better it acts. One "30" tablet is an infinitesimal dose, but a friend had a three months old cockerel from a well-known breeder that came with a big patch on its throat, but twelve tablets, given two a day, cured it in a week.

I do not pretend to be a scientist, but I know there are various forms of roup. I believe we have had the lot to deal with during the last six months, and I believe Spongia will cure them all rapidly, in conjunction with painting with tincture of iodine, where possible. Any other information will be given gladly through the columns of "Eggs" meanwhile the horrors of the last six months have not, I hope, been borne in vain.

## Correspondence.

### MARKING EGGS.

To the Editor of "Eggs."

Dear Sir,—I have been interested in the correspondence in "Eggs" re Marking Eggs, etc. Might I tell you my experience of the buying public. When we have a surplus of eggs in our farm over and above what we require for our weekly or monthly customers, we send the surplus to Leadenhall Market. On two different occasions the auctioneer has written to the effect that if we did not stamp our eggs with the farm name "they would sell readier and at a better price." Now, to me, IF IT IS THE CASE, this seems extraordinary, for to my mind the buyer has our name and address, which is a guarantee of the freshness of our eggs, and if he comes across any to complain about he can write direct to us (a thing which I may add has never yet occurred). Further, I may mention that last Spring we got one of our best and constant customers through a consignment of ours to Leadenhall Market "all marked." He told us that, seeing the quality, he immediately came down and saw us and gave a regular order. Are the auctioneers afraid of this in other cases, or is what they state a fact? Some of your readers may be able to elucidate these questions.

Yours truly,  
S. R. CARDEW.

To the Editor of "Eggs."

Dear Sir,—With reference to the question of competing with the foreigner, I wonder whether an

alteration in the method of packing eggs, as adopted in England, would be advantageous to the producer and also to the buyer?

I visited Smithfield Market last summer, and was told by one of the Egg Merchants there, that the English egg boxes were bad, for they did not display the eggs so nicely as the Danish and Dutch packages do. He then showed me the large boxes of Danish eggs, which are a common sight in our Grocers' Shops and one could not help noticing that this system of packing certainly showed up the eggs better than the English safety boxes do, and no eggs were cracked.

Is it possible for the English Egg Farmer to send his eggs to the markets in boxes similar to the Danish?

Of course, there would be no empties to be returned, so perhaps this would balance the extra expense in having the boxes made.

Yours truly,

A. SIDNEY MARSH.

Nellecott,  
Albany Road,  
Fleet, Hants.  
October 14th, 1922.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Sir,—In most of the correspondence which you publish on the subject of the present position the writers urge us either to reduce our expenses or to increase our efficiency. May I suggest that such advice is of little value unless some indication is given of how either of these objects may be attained. The only suggestion so far has been that we should cull more drastically. Could not some of your readers help us in the matter of economy? For my part I am trying feeding my birds exclusively on mash, and believe that it will cost a trifle less than the usual diet of half mash and half grain, but cannot tell so far.

In connection with this, do we not regard the composition of our mashes too exclusively from the scientific point of view. One is loth to criticise a paper which is so helpful and constructive as "Eggs," but is it not a fact that we read much of constituents and nothing of prices? I should like to suggest that all mashes quoted in your columns should have their price quoted (per ton for the large buyer, per cwt. for the small man); an approximate average price would be very helpful as a guide. Thus, I find that my present mash costs, on an average, £14 for 23 cwt. What do other readers pay for theirs? And can anyone help us with something which will give us better results per £1 than, shall we say, the mixture which merely produces the maximum eggs from our birds?

PHILIP LARCOM.

River Poultry Farm,  
Easton,  
Wickham Market,  
Suffolk.

Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, OCTOBER 20th, 1922.

GRAINS AND FEEDING STUFFS.—British wheat meets with rather more enquiry and, with conditions improving steadily, prices continue to rise, buyers readily paying from 2s. 0d. to 4s. 0d. per 504 lbs. for good milling samples; the average rate, 44s. per 504 lbs., shows an advance of about 2s. a quarter on the week. Imported wheat also advances readily, No. 2 Hard Winter now averaging about 54s. 6d. per 56 lbs. Few samples of good malting barley are available, and these are readily taken at prices round about 50s. per 48 lbs. in London. English oats are in demand, and, with supplies of only a moderate character, quotations are again higher, blacks and greys averaging 27s. per 336 lbs. Imported oats are very scarce on spot and command rather higher rates, and American maize is also rather dearer owing to short supplies. Milling offals are in fair request and prices are maintained, bran especially being firm in value. Oil-cakes continue to attract little attention, but quotations are not reduced.

MILLERS' OFFALS.—Bran (British): Bristol, £7; Hull, £5 17s.; Liverpool, £6 5s.; London, £6. Broad Bran: Hull, £7 2s.; London, £7 5s. Fine Middlings (Imported): London, £9. Coarse Middlings (British): Bristol, £9; Hull, £8 12s.; Liverpool, £8 10s.; London, £8 5s. Pollards (Imported): Bristol, £7 10s.; Hull, £6 7s.; London, £6 12s. Rice Bran: Bristol, £7 15s.; Liverpool, £7 5s. MEAL.—Barley Meal: Bristol, £11; Hull, £10 15s.; London, £11. Maize Meal: Bristol, £10 10s.; Hull, £10 7s.; Liverpool, £10 2s.; London, £10 5s. Maize Meal (S. African): Liverpool, £9 10s. Maize Germ Meal: Hull, £9 10s.; London, £9 5s. Maize Gluten Feed: London, £9.

EGGS AND DEAD POULTRY.

Eggs at country markets realised higher prices. Week-end prices per 120: English, 27s., 28s.; Irish, 25s., 26s.; Dutch all brown, 26s., 27s.; Mixed, 23s., 25s.; Danish, 18lb., 28s.; French all brown, 26s.; Mixed, 21s., 22s. Dead Poultry.—Yorkshire, Boston and Essex, 1s. 2d., 1s. 4d. per lb.; Surrey, 1s. 5d., 1s. 10d.

EGGS.

Per Doz.—Ashford: First, 3s. 2d.; Second, 3s. 0d. Birmingham: First, 3s. 0d.; Second, 2s. 7d. Carlisle: First, 3s. 6d. Chelmsford: First, 3s. 5d.; Second, 3s. 4d. Denbigh: First, 3s. 0d.; Second, 3s. 11d. Derby: First, 3s. 0d. Dorchester: First, 3s. 2d. Exeter: First, 3s. 0d.; Second, 2s. 9d. Hereford: First, 3s. Hull: First, 2s. 9d. Ipswich: First, 3s. 0d.; Second, 2s. 6d. King's Lynn: First, 2s. 9d.; Second, 2s. 6d. Lincoln: First, 3s. 0d. Llandilo: First, 3s. 0d.; Second, 2s. 9d. Newport (Mon.): First, 3s. 0d. Norwich: First, 2s. 7d. Ousevalley: First, 3s. 9d. Penzance: First, 2s. 7d.; Second, 2s. 6d. Salisbury: First, 3s. 3d.; Second, 3s. 1d. Shrewsbury: First, 3s. 3d.; Second, 3s. 0d. Skipton: First, 3s. 0d. Truro: First, 2s. 7d. York: First, 3s. 3d.; Second, 3s. 0d.

FOWLS.

Per lb.—Birmingham: First, 1s. 2d.; Second, 10d. Derby: First, \*4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Ipswich: First, \*6s. 0d.; Second, \*4s. 0d. Lincoln: First, \*5s. 6d.; Second, \*3s. 6d. Llandilo: First, 1s. 6d.; Second, 1s. 1d. Newport (Mon.): First, 1s. 8d.; Second, 1s. 3d. Norwich: First, \*6s. 3d.; Second, \*4s. 6d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 3d. York: First, \*5s. 0d.; Second, \*4s. 0d.

DUCKS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 1s. 2d. Derby: First, \*5s. 0d.; Second, \*4s. 0d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Llandilo: First, 1s. 7d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 6d. Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First, \*7s. 0d.; Second, \*5s. 0d.

\* Per Head.

VENTILATORS.

By J. EVERARD.

The various systems suggested for back ventilation have their advantages in some houses, but would not be so convenient in others. Take, for instance, the plan advised some time back of a two foot wide strip of felt tacked from rafter to rafter. This, I presume, would only apply in houses with rafters going from front to back of the house, and should it happen that the nest boxes and dropping boards are at the sides, and not along the back of the house, it would mean reducing the head room by about three inches in the lowest part of the house—a consideration when the height at the back of the house is only about five feet six inches.

Again, where the nest boxes are under the dropping boards, ventilation introduced below these would probably cause a floor draught.

In most houses of the lean-to type some plan of ventilation must be arranged near the roof, and the fresh air admitted in such a manner as to prevent a down draught on the fowls.

Working on this idea, I have fitted some ventilators on the following plan: Openings 23 inches long and 5 inches deep, were cut in the back of each section. Two spaces were marked out in each section from the inside of the house, and a hole bored in each corner. This gave the position of the openings, and the cutting was done from the outside. Two short openings were made in preference to a long one in order to prevent any sagging in the roof, and the 23 inches allowed for two feet wide small mesh wire netting being used to cover the openings on the outside.

The short pieces of matching when cut out were fitted together again with a strip of plasterer's lath on the inner side, and in their proper order—to make sure of this they were numbered before cutting out. This is necessary to ensure an easy fit, and allows the ventilators to be closed up in very rough weather.

Two triangular pieces, cut diagonally from a piece 6in. x 4in. x 2in. were fastened on either side of the openings, the six inch side to the back of the house and the right angle at top. One strip of lath nailed across at the points of the triangle, that is at the bottom of the openings, and another strip about five inches higher up for the shutter to rest against when the ventilator is open, the lower strip keeps the shutter from falling inwards, and the wire netting outside will keep it from slipping outwards, consequently no hinges are needed.

To give a finished appearance to the job, nail a framing of lath on the outside to cover the edges of the wire netting, letting it project about a quarter of an inch over the opening. This will prevent any draught coming in when the ventilators are closed. The openings were cut out about an inch below the framing of the roof to allow for a small button at the top, but the button has proved to be unnecessary. In very rough weather the ventilators close automatically. As there are no hinges, the shutters can be lifted out in hot weather. This was done on one or two occasions, and it made a great improvement in lighting up the back of the house. It suggested the idea of using strips of a glass substitute which will be put between two light frames of lath.

## Notes on Twelve Months' Trap-nesting of Ducks.

By S. HUXLEY.

When discussing egg records with a friend some time ago, I was very dubious about accepting his statement that it was quite an easy proposition to breed a flock of runner ducks which would give an average of 200 eggs in twelve months. Those of us who have trap-nested hens and mated up large breeding pens for dealing with poultry farming on a large scale, fully realise that to breed a flock of 1,000 hens, which will give us an average of 200 eggs, is a most difficult task. We can generally find a proportion of sprinters, but I venture to think that, in spite of our advanced methods in breeding, most commercial egg farmers are still looking for the flock of hens with the 200 average.

But to return to the ducks. After my experience with the trap-nesting of 160 fawn and white runners over the last twelve months, I am convinced that there is something in my friend's statement. It was not until last year that I was able to give this duck question a thorough test, and, having decided on my plan of campaign, I scrapped my old flock of ducks, and purchased a mated pen from a well-known northern breeder. From this pen I bred 160 ducks, all of which I decided to trap-nest. Having to record properly, this quantity of birds was no easy problem, and with a view to enlightenment on the type of trap-nest to be used, I visited the "Daily Mail" test at Bentley. Here I found that the nests were arranged in the open air, but as I had a large and well-lit house on my farm, I decided to use it for recording purposes. I subsequently arranged my nests in five rows of 32 each, leaving sufficient space between the rows to allow of ample working room. Each nest was fitted up with a feed tin, and water pots were placed in such a position that one pot was sufficient for every two birds. Due to unavoidable delay my recording house was not ready for its occupants until October 8th, consequently I was prevented from obtaining records of the birds which had been laying for some time prior to that date. On October 7th, the day before the flock was split up, the egg yield amounted to 73, but, owing to moving the birds to their new quarters, and the upset they experienced whilst being coaxed to enter the trap-nest, the egg yield dropped to less than 30 in a few days. The sudden change also resulted in several birds being thrown into a moult with its attendant evils. I am strongly of the opinion that ducks which are to be trap-nested should be trained to enter their nest when they are not more than four months old. This enables them to settle down thoroughly to their new housing conditions before commencing to lay, and the fore-going troubles would be obviated. It was quite a week before I could persuade the birds to take to their nests. What a time it was! One needs the patience of a Job on jobs of this kind, and I was

sorely tempted once or twice to assist them in by means of the business end of my boot. However, by practically starving them, and placing a little corn just inside the trap door of each nest, they very soon got accustomed to the trap-front dropping on their backs, and in ten days' time I was enjoying the fun of watching the late-comers running up and down the rows of nests in their endeavours to find an empty one.

The actual recording of the birds I found most interesting work, and it was surprising how I got to recognise the individual birds even in a flock of 160. The routine work was as follows:—

9.0 a.m.—Examine each nest, released and record each bird, which had laid.

10 a.m.—Further examination of nests; finish the recording of any birds which might have laid since the first inspection, and release the remainder. Feed half a handful of corn to each bird.

11.0 a.m.—Fill up each feed tin ready for the evening feed. Clean out and replenish water vessels and set trap-fronts. Each nest was also thoroughly cleaned out on alternate days, and fresh litter put in.

4.30 p.m. (later, of course, as days got longer.—Allow birds into the nest for evening feed, and after about a quarter of an hour examine the individual feed tins. Those birds which had cleared their first portion were given an extra feed of mash. The appetites of the individual birds varied considerably, those in lay consuming more than those which were not laying. After seeing that all birds had been satisfied, they were shut up for the night.

Now, to the uninitiated all this may seem quite simple, but the amount of detail work necessary to properly carry out satisfactorily the recording of 160 ducks can only be appreciated by those who have had similar experience. I am convinced, however, that the results obtained from the test amply repay the trouble taken. The records showed wonderful performances so far as egg yield was concerned, but in addition to fecundity one is enabled to study type, and the all-important question of stamina of the individual birds, before making the final selection for the breeding pens.

On carefully weighing up my twelve months' work and comparing my records with those obtained from trap-nested pullets, I am forced to the conclusion that as a commercial proposition the utility duck opens up great possibilities for the egg farmer. My original breeding pen was made up of selected birds, but as trap-nested, and as the resulting progeny has proved so prolific, I am very sanguine as to the results which should be obtained from a breeding pen made up of birds possessing type, stamina and high fecund qualities.

Unfortunately, in many quarters prejudice prevails against duck eggs, and duck breeders should lose no opportunity in endeavouring to overcome whatever objection there may be. Many people take exception to the green or tinted egg, and here again the further value of the trap-nest is apparent. By breeding only from birds which produce the cream white shell, the green or tinted egg can be entirely eliminated.

## How Poultry-Keepers Can Increase Their Profits.

### Fruit-Growing a Profitable Side Line.

There is undoubtedly considerable scope for fruit growing in conjunction with poultry farming, or even running it as a side-line only. Miss Rawson, F.R.H.S., is fully qualified to speak on the subject of fruit and market gardening, and, in addition, she has devoted several years to poultry. Her lecture on Friday last was to a full audience of pupils and staff of "Heaslands" Poultry Farm, Hayward's Heath, in addition to a good number of visitors, and in introducing the lecturer, Mr. E. Bostock Smith, who was in the chair, said he considered the subject of combining fruit with poultry a very important one, because it deals with what might be waste. Waste is a crime, and if we are using land for poultry and poultry only, then we are wasting that land. The fact is that poultry pay so well by themselves there is very seldom the real necessity for making money in other directions, but it should be the object of everyone to make their land produce all it possibly can..

Miss Rawson, in opening her subject, said she wished to talk principally about fruit growing with regard to poultry farming. She did not suggest that one should altogether in for fruit farming, which is quite a specialist's work. Fruit, however, can always be made a profitable side-line, even from old orchards, and quite frequently one can take over an old orchard which can be made splendid use of. It will take anything over twenty years to construct an orchard, and get a satisfactory return from it, but if one is lucky enough to get an old orchard, they can do much to redeem it, and in three years get it producing well again.

Apple trees require sun from every direction, and they should be cut like an upturned umbrella for this reason. Pruning is quite an art, and one has to learn what it is best to remove. Spurs are two years old before the fruit, and if you cut back the existing ones there will be a gap for two years, but it is better to do this than keep on very old wood. Never destroy old trees, except of rare occasions, as anything up to 40 or 60 years old is very good; some people make the mistake of cutting down old trees and planting young ones.

If anyone is starting a poultry farm, and wishes to plant fruit trees, I should recommend half-standards. These have a stem about 4ft. 6in. and fruit on the top. Half-standards should be planted about 15 feet apart, which will mean about 193 trees to the acre, and this will give an idea of the cost. The time to plant is between November and March, but preferably before Christmas. The earth about the roots should be kept cultivated and weeded for at least four or five years before grass is allowed to grow there. It will no doubt be found that when poultry are running amongst the trees they will make dust baths near them, but this will not do any harm provided the roots are not exposed. There is a large proportion of Nitric Acid in poultry manure, and, therefore, one will have to lime every year because of its extreme strength. It is a great advantage to run poultry in orchards because they eat the insects off the trees. The insects come down to hibernate, and they are never allowed to get back up

the trees where poultry are about. I know of several cases where fruit growers have given the use of their orchards free to poultry keepers for this reason.

For spraying, which should be done in winter, the best thing to use is caustic alkali wash composed of 1lb. caustic soda, 1lb. carbonate of potash, 1lb. copper sulphate, 1lb. agricultural treacle, 2½lbs. soda carbonate, and 10 gallons of water. It is prepared by dissolving the caustic soda, potash and treacle in about one gallon of water, dissolving separately the copper sulphate in a wooden vessel, and again separately the soda carbonate, then adding the remainder of the water and stirring all together. The Ministry of Agriculture send expert sprayers with special machines for the work to anyone who requires them.

If you are planting fruit trees, do not choose too many varieties, as there is great difficulty in marketing them all in small quantities, but it is inadvisable to have one variety only.

It is a good thing to have, as far as possible, a mixed orchard, so that if the season does not suit one crop, the others will make up for it. On the east boundary damson trees should be planted, as they make a good break for the cold winds, and stand them well.

Apples which keep are the ones which pay best. Apples should be picked with the whole of the hand, and not by the forefinger and thumb alone, which tends to bruise them.

Bush fruit in poultry runs is a perfectly feasible plan for rearing chickens if you look after it, but bush fruit does better where the ground is ploughed up. Black currants fruit on the new wood, so that the old wood should be cut out. Red currants are the opposite. Never allow fruit to grow the first year of planting.

Vegetables. In this one has to consider the cultivation of the ground itself, and deep cultivation is necessary for the best crops. Poultry manure is excellent, but it must be remembered that it is about four times stronger than farmyard manure. To be of the greatest value poultry manure must be dry, and if burnt together with the litter from fowl houses, it gets the ash added to it, which is an advantage. About 1lb to 2lbs. per square yard is enough for small crops. It is essential that there should be a large quantity of lime in the soil owing to the nitric acid in poultry manure, which is liable to turn the soil sour. If ½lb. sulphate of lime is added to every 2lbs. of poultry manure it will counter-act this.

Cabbage, kalo and savoys sown in April are very useful in conjunction with poultry. It is essential to have well manured ground for all the cabbage family, and poultry manure makes a good top dressing. 1oz. of cabbage seed produces about one thousand plants, and about 12,000 cabbages will go to the one acre. Kohl rabi is very good when the soil is poor, but it is better to grow mangolds if the ground permits. Onion is especially good for chicken rearing, and it is in the growing of this root is very valuable. Lucerne can be sown in April, and a small crop taken off that year, but later it can be cut two or three times a year for ten years, and poultry like it very well. It resists drought very well, but does not like moisture too much.

In answer to a question Miss Rawson said that it is certainly advisable to remove windfall apples from orchards, so that the birds do not eat them, as they cause scouring. Pruning should be done every year.

## How "Eggs" is Appreciated

It is very gratifying to learn how "Eggs" is appreciated by its readers.

We have recently asked through our columns for readers to send us the names and addresses of people in their district who take, or are likely to take, an interest in poultry, so that we could post them a sample copy of "Eggs."

We have received over two thousand names in response.

This is proof of how carefully "Eggs" is read and the great interest which its readers take in its welfare.

From among the very many letters received on the subject quote the following, which show the spirit in which "Eggs" is looked upon by its readers, and the great confidence they have in its integrity and purpose:—

"W.N." (Nairn). I enclose a list of locals to whom might be able to introduce "Eggs" with good results. paper is well worth study by even the most experienced poultry keeper.

"R.W.S." (Sussex). I hope the addresses below will be some help to you to increase the sale of your very first paper, "Eggs."

"J.W." (Ayrshire). The thought struck me of sending cutting out of our local weekly paper of names and addresses of poultry keepers.



### Exhibition and Pure-Bred Utility Birds.

LIGHT SUSSEX.—1st and Sp., Lewes. 1st and Sp., Redhill. 1st and Sp., Tunbridge Wells. 2nd Utility, Crystal Palace, etc.

WHITE LEGHORNS.—1st Redhill. 1st, Uckfield. 1st, Sussex Agricultural, etc.

BLACK LEGHORNS.—1st and Sp., Lewes. 1st Royal Counties. 1st, Royal. 1st, Tunbridge Wells, etc., etc.

TOULOUSE GEESE, AYLESBURY DUCKS.

COCKERELS: 21/- to £3 3s. 0d.

PULLETS: 17/6 to £2 2s. 0d.

All Birds sent on Four Days' Approval. All Birds Trap-nested. Only L2 Birds bred from. Please note Change of Address, and when in our neighbourhood do not fail to visit our new 110 ACRE MODEL FARM. Write to-day for Free Illustrated Price List to

**MRS. HARRY KENT,**

**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**

Station: PEVENSEY or BEXHILL.

### TO POULTRY FARMERS

Why Pay High Prices for Oyster and P. Grits, when you can use GRITTO CRUSHED COCKLE "SHELGRIT" and

IT CONTAINS SUFFICIENT QUANTITY of LIME for SHELL FORMING, and is EXCELLENT DIGESTIVE AGENT. CRUSHED, being PURE LIVE SHELL ONLY and ENTIRELY FREE FROM DUST AND DIRT.

Buy the One Shell only, and save waste of double storage And Cost of Buying TWO Expensive

LOWEST PRICES, ex-Warehouse, or on application to

**GRITTO, LIMITED**

103, Southwark Bridge Rd., S.E.

## Who is to be the Father of your Family for 1923?

NEXT Spring you will be hatching out a feathered family of which you wish to be proud—and, incidentally, from which you will hope to receive a handsome profit. Their quality and profitability will depend very largely upon *their father*! They cannot choose their father; but *you* can, and you should choose him carefully. I still have some first-class cockerels for disposal at reasonable prices, which will insure egg-laying qualities (always transmitted through the sire) and off-spring true to type, and I would like you to come and see them before making your final decision. If you cannot manage to come, let me know whether you want White or Black Leghorns, White Wyandottes, R.I.R., Light Sussex or Black Mendels, and about what price you are prepared to pay. I will select your "father" for you, and if you are not completely satisfied with him, you can send him back and have your money refunded.

**E. Bostock Smith**  
Pedigree Utility Poultry

"Heaselands," Hayward's Heath, Sussex,  
Write for my Free Booklet "Profitable Poultry"



# BREEDERS' SPECIALITIES.

## ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

BOUGHTON via NORWICH.

Rev. F. KENNEN, S.P.B.A.,  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from dam's 273-250 eggs. Sire's Dam, 255 eggs in pullet year.  
Pullets No. 50, winner of Special and 1st Prize, Sept. 9th, 1922. Pen No. 1, headed by Male from 250-240s. hen (Latham). Pen No. 2, later hatched, but with special forward male. Orders now taken for Sittings, Day Olds, and Early Pullets and Cockerels. Prices and Records given on application.

Miss HARDMAN,

Member, S.P.B.A. and N.U.P.S.

MYNT, DUNFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good winter layers kept for breeding.

## F. A. HULME.

Heathfield Commercial Egg Farms

HEATHFIELD, SUSSEX.

WHITE LEGHORNS.

Breeding Hens, Cockerels.

Hatching Eggs in Season.

N. SHELLEY S.P.B.A. and  
N.U.P.S.

Breeder of Utility Trap-nested

RHODE ISLAND REDS

1922 Pullets, on point of lay, from 15/-

The Manor House, TITTENSOR, Stoke-on-Trent

EVERY MEMBER OF THE  
S.P.B.A.

SHOULD TAKE ONE OF  
THESE SPACES.

SEND ALONG YOUR ORDER.

You can depend on it.

ONE OF THESE SPACES  
COSTS:

13 weeks, 5s. 6d. per insertion

26 " 5s. 0d. " "

52 " 4s. 6d. " "

(Not less than 13 accepted)

WHITE WYANDOTTES.

L. WILLIAMS.

Whiston Poultry Farm.

GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.

WHITE LEGHORNS.

LIGHT SUSSEX.

Pullets, from 10/-, according to age.  
Inspection Invited.

MILL VIEW POULTRY FARM,

TENTERDEN, KENT.

Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE.

S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

SHIPWAY POULTRY FARM,

TORQUAY, SOUTH DEVON.

Miss N. B. MADDISON.

S.P.B.A., N.U.P.S.,

Dane Hill, Sussex.

RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

Grand Early Cockerels for Sale.

All Trap-Nested Pedigree Utility Stock.

QUAKER BROOK POULTRY FARM,

WHITE LEGHORNS

WHITE WYANDOTTES

HOGHTON nr. PRESTON

MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,

Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I. Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

A MOST

PROFITABLE INVESTMENT.

IF IT IS ADVERTISED IN

"EGGS"

WHITE LEGHORN FARM, WOODMAN-  
COTT, MICHELDEVER, HANTS.

Offers W. Leghorn Yearling, at 10/6 Two-  
Year-Olds at 5/6. A limited number of  
March and April Hatched Pullets.

Satisfaction and a Clean Bill of Health  
guaranteed.

Bankers: Messrs. Barclay and Co., Ltd.,  
Basingstoke.

A. P. C. HOLDAWAY.

R. J. HUBBUCK,

Member of S.P.B.A., N.U.P.S., and P.O.,  
Pinchurst Poultry Farm,

Headley, Hants.

White Leghorns, White Wyandottes, and  
Light Sussex.

Eggs and Day-old Chicks.

Cockerels, Pullets and Breeding Pairs.

Enquiries Invited.

The MISSES RANSFORD,  
White Leghorn Stud Farm

All Birds Trap-Nested.

All Birds on Free Range.

PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.

Pedigree Cockerel List Now Ready.

MISS ARGLES, N.U.P.S., B.C.

Pullets and Cockerels bred from my famous  
White Wyandottes.

Twice top score, one third in four years in  
All Ireland Laying Competition.

White Leghorns, Miss Edwards' splendid  
laying strain.

From 10/-, according to age and pen.

ANSTEY POULTRY FARM,  
ALTON, HANTS.

Rev. C. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S., and N.U.P.S.

Breeder of the Highest Class Pedigree  
Utility Poultry.

"HEASELANDS," HAYWARDS HEATH, SUSSEX.

Phone—Haywards Heath, 92.

White Leghorns.  
White Wyandottes.  
Rhode Island Reds, S.C.

Light Sussex.  
Mendels, Black.  
Black Leghorns.

WHEN WRITING ANY OF THE

ABOVE RELIABLE BREEDERS,

PLEASE MENTION "EGGS."

## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.

**DAY-OLD CHICKS** ... 1s. extra.

**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	
6 " " "	4
9 " " "	6
13 " " "	9

## FOR SALE. PULLETS.

**RUFF ORPINGTON**, closely related to world's champion layer; some really good 1921 and 1922 pullets; 15s. to 25s. each; free range reared; guaranteed free from B.W.D.—Gerald Gerhardt, Woolley, Hambleton, Henley-on-Thames.

March hatched **W. LEGHORN** Pullets, ready for lay, from hens with records 228-248, sired by cockerel, from 288-egg hen; 25s. 6d. each. **WHITE WYANDOTTES**, April hatched (220-270); will lay during October; 21s. 6d. each; selected birds, 25s. R.I. REDS, March hatched, near laying; 21s. 6d. and 25s. each. Only limited numbers.—C. D. Cheesbrough, M.S.P.B.A., Carlton, Nottingham.

**WHITE LEGHORN** Pullets, April hatched, from Hanson's hens direct; sired by cockerel (four-guinea bird); Warwick Rogers direct; son of hen whose official record winning pen S.P.B.A. stock tests was "over six eggs weekly for eight months"; 21s. and 25s.; cockerels same price.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

Six very fine **LIGHT SUSSEX** Pullets, laying, or on the point of doing so; sired by 226-egg cockerel; all Eden strain; 21s. each. A genuine offer.—T. P. Slipper, S.P.B.A., Kinver Poultry Farm, Stourbridge.

Twenty-three **WHITE LEGHORN** Pullets, in lay; 17s. 6d., 21s., carriage paid; full particulars on application. — Elkington, Shirehampton, Bristol.

### WHITE LEGHORN

Pullets, 18 March and April hatched; 10s. each; Eight June 1st, 6d.; from Barron hens, by selected cockerel.—Mrs. Negus, Sherbourne, Warwick.

R.I. Red Pullets, March and April hatched, from pedigree trap-nested hens, by cockerels, from Measures' Gold Medal pen and Golden's Pen 1; 12s. 6d. and 10s. each. Nine June hatched, same breeding; 6s.—Mrs. Negus, Sherbourne, Warwick.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Quarter Column, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Colours and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

ADVERTISEMENTS must reach **Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E.16**, by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Full amount of cash must accompany every advertisement. Write plainly. The Manager will do his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertisers are asked to make full use of same. When remitting direct to Editor on deposit the full amount of purchase-money should be remitted, and six penny stamps extra to cover cost of acknowledgment of same.

**BLACK LEGHORN** Pullets, April hatched, splendid birds; some laying; free range; 15s. each.—G. Goldsmid, Brill, Bucks.

Twelve **WHITE LEGHORN** Pullets, 1922; Padman; 12s. 6d. each.—Jones, Berwyn, Little Hay, Lichfield.

**RHODE ISLAND** Pullets, commencing laying February; 25s.; March, 21s.; Measures mated Scotch laying strain; free range. — Woodhams, Kilcot, Newent, Gloucestershire.

Six **WHITE LEGHORN** Pullets, May hatched; Tom Barron strain; 12s. 6d. each.—Mrs. Burnaby, M.S.P.B.A., Sampford Courtenay Rectory, N. Devon.

Pullets, **WHITE WYANDOTTE** (Cam-Barron), **LIGHT SUSSEX** (Crawshaw-Faulkner), February and March hatched; 12s. 6d.—15s. each. Stock Cockerels; 10s. 6d. each.—Hebditch and Jones, Stoke-u-Ham, Somerset.

### HENS.

Six **WHITE LEGHORN** Hens, Tom Barron strain; excellent layers; 6s. each. Selling to make room for young stock. — Mrs. Burnaby, M.S.P.B.A., Sampford Courtenay Rectory, N. Devon.

### CROAD LANGSHAN.

What Offers for 18 Croads, March, 1921 (Behren), pen average October to January 45. See article by Editor, "Eggs," December 22nd, 1920.—Ballard, 35, Princess Road, Bournemouth, West.

### COCKS AND COCKERELS.

**BUFF ROCK** Cockerels, early March, same strain as my S.P.B.A. Test winners; 17s. 6d. each.—Lewis Baxter, Easton, Stamford.

Cockerels, **WHITE LEGHORNS**, March hatched, direct Priest and Shaw; fine healthy birds, from 12s. 6d.—Four Marks Poultry Farm, Hants.

**LIGHT SUSSEX** Cockerels, Harrison-Bell, Rothschild strain; March and April hatched; 12s. 6d. each.—T. Smith Williams, Manor Farm, Knebworth, Herts.

1922 **LIGHT SUSSEX** Cockerels (Phillips), 15s. and 18s. Also **W. WYANDOTTES** and **W. LEGHORNS** (Phillips), 10s. 6d. and 12s. 6d.—J. A. Eddleston, M.S.P.B.A., Wycollaz Blackburn.

### 1st IN WYANDOTTES.

100 per cent. First Grade Eggs, Single Bird Test, Cheshire Section; cockerels related to above from 24oz.-egg; heavy layers.—Captain Heseltine, Ropley.

**WHITE WYANDOTTE** and **WHITE LEGHORN** Cockerels (Parson's Strain Dams' trap-nest records from 228-238. From 15s. each. Few Pedigree Cocks, from 12s. 6d.—Simmons, Fairview Poultry Farm, Hembury Fort, Honiton, Devon.

## SPECIAL OFFER OF PEDIGREE COCKERELS.

**WHITE LEGHORN**, bred from Cam's famous Grimley winners, holding world's record for winter laying; dam's records 223-255; winter records 79-109. Average weight of eggs, 2½-3-8oz. Only a few March and April hatched left; 10s. to 15s. each, carriage paid. — Boaling, Jeasmond Vale, Burgess Street, Bassett, Southampton.

## BLUE ANDALUSIAN COCKEREL.

Dairy Champion strain; well developed, perfect type, utility; 12s. 6d., Exhibition, 21s. and 30s. R.I.E. Cockerels, beautiful deep red to skin; big, well developed really good Aristocrat strain; 25s. to 30s.—"Bridgelynn" Poultry Farm, Horeham Road, Sussex.

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks (all colours). Records to 269. Approval.

**BUFF ROCK** Cockerels, bred from stock supplied by J. H. Cooper, dam's record 225-238, February and March hatched, pedigree on application; 15s. to 30s. each.—Farrar, Brookroyd, Batley, Yorks.

## 281 EGG RECORD R.I.R. COCKERELS.

from 280 and 262 records hens; hatched February, March; price from 30s. birds personally trap-nested and picked stamping.—D. Hasler, Priton-on-Sea.

**ROAD LANGSHAN** Cockerels from the b Secretary's trap-nested stock; 15s. per Campines, 10s.—Rev. C. Stobie, S.P.B.A., M.C.L.O., Fargue, Aberdeen.

**LIGHT SUSSEX** Cockerels, April hatched, 1922; from Bostock Smith's No. 3; fine healthy birds.—Apply, The Ferns, W. Cope, Medstead, near Alton, Hants.

## HATCHING EGGS.

Two year old **WHITE LEGHORNS**, hatched 20-egg cockerels; 6s. dozen; 40s. adred; f.o.r. Waldron Station; order now January onwards.—H. Chesterton, Chidgely, Sussex.

**LIGHT SUSSEX, WHITE WYANDOTTES**, hatched; 10s. 6d. **AUSTRALORPS**, hatched; 15s. 6d. Stamp for particular.—Mrs. Rushton, Barnacre Lodge, Garang.

**ANCONA, W. WYANDOTTE, W. LEGHORN**, Stock Cockerels, March and April hatched; 8s. each, carriage paid. Surplus requirements.—E. N. Parris, Danecroft poultry Farm, Bagshot.

## WHITE LEGHORN COCKERELS.

February and March, Dr. Baldwin's direct, fine, healthy birds; reared on free range & 600ft.; 15s. to 25s. each, carriage paid.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

**WHITE LEGHORN** Cockerels, pen average 239. Stock direct from "Daily Mail" set; February and May hatched; 15s. and 8s. each, carriage paid.—J. Westerman, East Court P.F., Saltdean, Louth, Lines.

## CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.

Stock Cockerels for Sale. **WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS** and **WHITE LEGHORNS**; 8s. to 8s. each, according to breed and dam's record. All with records from 234 to 277. Full particulars on application.

## WYANDOTTES.

**WHITE WYANDOTTE** Cockerels, March hatched, from daughters of 262 and 258-egg hens, by cock grandson of "Lady Eclipse" (41 eggs); 12s. 6d., 15s., and 21s. each.—Jansell, Kingston Stert, Thame.

## LA BRESSE.

A few select Cockerels for Sale, brothers & my winners at Yeovil, Trowbridge, Totenham. **WHITE LA BRESSE**, 30s. each; **BLACK LA BRESSE**, 2gns. each, carriage paid.—H. Lynden Lemon, M.P.C., S.P.B.A., The Lodge Poultry Farm, Devizes.

## TOM BARRON DIRECT.

February hatched **WHITE WYANDOTTE** Cockerels, splendid birds; good type and stamina, from 12 hen (Barron), layer of 34 eggs in 36 winter days; sired by Barron Cockerel, son of 285 large egg hen; price 30s.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

## DR. BALDWIN'S DIRECT.

**WHITE WYANDOTTE** Cockerels, February and March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved 12 birds; 21s. each, carriage paid; September and October. —Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

## APPLIANCES.

**STANWORTH SOOLE** Brooder Stove, complete; £7 10s. Small Kibbling Machine, 30s.—Ashenden, Patricbourne, Canterbury.

Phipp's Premier **HOT-AIR INCUBATOR**, 160-egg, used three seasons; selling to make room. Double Incubator. £4 10s.—Coulson, Chew Magna, Somerset.

100 Phipps' "**IRONSTONE**," 60 **HEARSON**; both new, 1920; perfect condition; £6 10s. each.—Capt. W. Pritchett, Marden, Kent.

## GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid.—Hudson, Sheet Metal Works, Patricroft, Lancs.

## "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyeoote, Leominster, Herefordshire.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Best galvanised. British only; stamp list.—Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

**FITTINGS** and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the **MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

## WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Botherwick, Hampshire.

Design your Own Poultry House. Estimates by return for Sectional Buildings of all descriptions. Best workmanship. Prompt attention.—Browett, Regent Street, Watford.

## EGG BOXES.

24-30 doz. size. Strongly made, varnished, iron strapped; cardboard partitions; limited number only. Single Boxes, 10s. each; for 6, 9s. each; for 12, 8s. each. All carriage forward.

**WORSSAM** and **ABBOTT**,  
Pyrecoft House, Chertsey.

## DUCKS AND DRAKES.

**FAWN** and **WHITE RUNNER** Duck 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

## 1st IN BUFF ORPINGTONS.

National Laying Test, 1017 eggs in ten months; 1st, Special, County Utility Cup, Winchester; pens, Stock Birds. — Captain Heseltine, Ropley.

Four Massive **AYLESBURY** Ducks, One Drake; good pen for breeding. Also Eleven **WHITE RUNNER** Ducks, on point of laying; all 1922 hatched; 10s. each.—Harrison, West Burton, Aysgarth, Yorks.

Sixty **FAWN** and **WHITE INDIAN RUNNER** 1921 Ducks: Holdich. Through moult and mostly laying; 7s. 6d. each. Carriage paid on six. Unrelated Drakes, March, 1922; 9s. 6d. each. Here's an opportunity to make up a good Breeding Pen at low cost. Room wanted for young stock.—Pearson, S.P.B.A., Whitelines Poultry Farm, Cranbrook, Kent.

Drakes. **KHAKI - CAMPBELL, COALEY** **FAWN, BUFF ORPINGTON, WHITE** and **FAWN** and **WHITE RUNNERS**, from best strains; 10s. each.—Bungalow, Bentley, Suffolk.

Ducks and Drakes.—**KHAKI-CAMPBELL** Drakes, April hatched, from Capt. Long's No. 1 Pen; fine, vigorous birds; moderate price, or Exchange.—Capt. F. Pardoe, Bradley Court, Mitcheldean.

**BUFF ORPINGTON Drakes** (Street Porter), at 15s. each; size and colour excellent.—Mr. Witherford, Markington Hall, via Harrogate, Yorks.

We have for Sale a limited number of early 1922 hatched **AYLESBURY Ducks** and **Drakes**. These are massive birds, and very quick growers, and if you wish to obtain a really good strain, of table ducks these are cheap at 20s. each, carriage paid. Four days' approval. C.W.O., or deposit with Editor.—Smith Bros., 63, Reinwood Road, Lindley, Huddersfield, Yorks.

**Ducks**.—1922 **WHITE RUNNER Ducks**, sired by son of Taylor's 301-egg duck 8/6 each. Also **FAWN Ducks** and **Drakes**; 8/6 each.—A. Mansell, Kingston Sturt, Thame.

Ten **WHITE RUNNER Ducks**, from Taylor's E.A.T. pen, 1921; price 9s. 6d. each, or £4 10s. the lot, carriage paid.—St. James's Poultry Farm, Brackley.

**Monster AYLESBURY Ducks**, pure, March hatched; fine stock birds; 8s. 6d. each, carriage paid six.—Balmer, Stapleford Tawney, Romford.

**FAWN RUNNERS**, 10 Ducks, 1921, one 1922 Drake; 5s. each, £2 10s. lot. **SPECKLED**, the new colour; correct type; very handsome; Three Ducks, One Drake (1922); 30s.—Bainbridge, Keyneston, Blandford.

A Few **WHITE RUNNER Ducks**, brothers to first Aylesbury (Utility), from high egg record ducks; true to type; reared on free range; 15s. and 20s. each.—Crowther, Sherington Utility Poultry Farm, Newport Pagnell.

### GEESE.

Six Fine **WHITE EMDEN Goslings**, early hatched; make monsters by Xmas. 10s. 6d. each, carriage paid lot.—Balmer, Stapleford Tawney, Romford.

Twelve Pure Bred **AYLESBURY Stock Ducks**, Four **Drakes**, unrelated from my well-known strain; April and May hatched, 15s. to 20s. each.—R. Wallbank, Stairs, Oxenhope, Keighley.

Sixteen Pure-bred **AYLESBURY Ducks**, hatched early June; well grown; 10s. each.—Mrs. Negus, Sherbourne, Warwick.

**SIX BUFF ORPINGTON DRAKES**, hatched 1922, Cook's strain; 7s. 6d. each. **TWO COLOURED INDIAN RUNNER DRAKES**, hatched 1921, Harold Paine strain; 7s. 6d. each. **FOUR DITTO, DITTO, 1922**; 6s. each. **ONE WHITE RUNNER DRAKE, 1922**; 6s. All fine healthy birds.—Apply, Oak Lodge, Furnace Road, Felbridge, East Grinstead.

### BREEDING PENS.

#### ANCONAS.

40 1921 Hatched **ANCONAS** (Adams and Linkie, Romano Bridge) Moulting now, so will make excellent breeding pens; 7s. each, or would consider offer for whole.—W. H. Scott, Carnsalloch Poultry Farm, Dumfries.

## GOLDEN-BARRED PLYMOUTH ROCKS.

Can spare few Breeding Pens, all bred from three generations at least of 200-egg ancestors. National Laying Test, second and silver medal. Fine table birds; no wastage with unsaleable cockerels.—Stuart-Thompson, Woodbyth, Peterborough.

### BREEDING PENS FROM BEST STRAIN.

N. H. Bell or G. B. Metcalfe, 1920, Leghorn Hens, 6s. 6d.; Bell-Metcalfe or Tomlinson-Bell Pullets, 13s. 6d. **FREE** with 12 hens, early Bell-Metcalfe or Tomlinson-Bell Cockerel, or with 12 Pullets, Bell or Tomlinson 1921 Cook.—Chalk Shottendane, Margate.

Twenty **BUFF ROCKS**, 1921, Cooper-Johnston's, from P. E. White's 1921, registered pen; early March hatched; 12s. 6d. each.—J. A. Matthews, Poultry Farm, Codsall, Staffs.

### RABBITS.

Lester Spurgeon. **Wistlers Wood**, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

### FOODS.

#### WHAT DO YOU PAY?

Finest Quality **MEAT** or **FISH MEAL**, 17s. 4d. cwt., f.o.r.; 5cwt. carriage paid. Samples, stamp.—Douglas Ann, Old Thatch, Hellingly.

## GRANULATED CHARCOAL.

Guaranteed Quality, half-cwt., 12s.; one cwt., 22s., carriage paid. Also Cedar Litter, Dried Flies, Grits, Meals, etc. Samples free.—Bygrave and Co., Amwell, near Ware.

## POULTRY CHARCOAL

#### DIRECT FROM

### THE MANUFACTURERS.

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. "A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal."—J. B. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5

## DERBYSHIRE LIMESTONE GRIT.

3s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

### MISCELLANEOUS.

Strong, Vigorous Early-March, 1922, R.I. **RED Boucher-Crawley Cockerels**, and ditto W. **WYANDOTTE** (Barron-Cooper) Cockerels. All of fine type and colour, and from high record hens. 20s. each. Also a few 1921 Breeding Hens, with good winter records, 10s. each.—Philip Goodwin, "Outspan," Cheadle Hulme, Cheshire.

**PULLETS**, May hatched. White, Brown Black Leghorns, White Wyandottes, Buff Rocks, 12s. 6d. each; April, cross-bred, 6d. **DUCKS**, Orpingtons, Aylesburys, Bantams, April hatched; some laying; 12s. 6d. **DRAKES**, 10s. 6d.—Mrs. Wilson, M.S.P.B. Minorca Farm, Denholme, Bradford.

### WINTER EGGS.

Breeding Pens or Single Birds, Select Winter Layers, Rhode Island Reds, Buff Rocks, Black Mendels. Birds reared on extensive free range; trap-nests for particulars.—Mrs. Manwaring, S.P.B. F.N.U.P.S., "Plovers," Horsmonden, Kent.

## EDENMORE POULTRY FARM. HOOK, HANTS.

**WHITE WYANDOTTES**, large eggs, large birds, splendid records and stamina. Best Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices apply to Brig-General Macconochy, Edenmore, Hook, Hants.

F. JOERGENSE, Specialist and Large Breeder of Ormonds. Stock Birds, Pullets and Chicks: — Kennylands, Engamer Green, Reading.

### WHITE ORPINGTON ONLY.

Write for prices and particulars of our trap-nested stock.—Manager, Westridge Farm, Wotton-under-Edge.

**RHODE ISLAND RED** and **BROWN LEGHORN** Pullets; February, March, April 7s. 6d. to 15s., according to age and quality. Best Utility strains. Also February Cockerels.—Hudson Bros., St. Catherine's Poultry Farm, Guildford.

## WATLINGTON POULTRY FARM. SPLENDID OFFER.

of 30 **WHITE ORPINGTONS**, May, 1922, hatched; 8s. 6d. each; excellent for breeding stock.

Twenty-three good early April hatched 1922 **WHITE LEGHORN** Pullets; perfect health; mostly now laying; Cam's direct. Geddescombe winner; 21s. each. **MASSIE RED SUSSEX**, 1922, Cockerels; ideal for table poultry crossing; 21s. — Simmins, M.S.P.B.A., etc., Heathfield, Sussex.

### BUNGALOWS.

**HAMPSHIRE**.—For Sale, Artistic Modern Bungalow (2mins. station). Poultry Houses, Garage, etc. Eight acres. — Four Marks Poultry Farm, near Alton.

### BUNGALOWS.

For Sale, midway between Corfe Castle and Swanage, Wooden Bungalow, 5½ acres, orchard land. Good position for Poultry. Near main road. Plentiful supply water. Good sanitation. Two bedrooms, one all hall, one bath, w.c., sitting room, kitchen. Price £600. Immediate possession. Apply, W. Bourne, Harman's Cross, Lang Matravers, Dorset.

### PARTNERSHIP.

Anybody wishes to meet another with Small Poultry Farm and Garden, near London; willing to share work and expenses in return for comfortable home. Interview. References.—A. F. C., "Vankarier," High Wycombe, Herts.

Working Partnership Wanted, in Commercial Egg Farm, or with a gentleman starting up. Capital and experience available.—Box No. 170, "Eggs," 94, Farncombe Street, London, S.E.16.

### PUPILS.

The ELTY POULTRY FARMING SCHOOL, near Bourton, Som. Principal: Langdon Thomas, F.B.S.A. (by exam.), large county house, outskirts Bristol; 30 acres; 6,000 eggs incubation; all modern plant; lectures, practical tuition; thorough training guaranteed: fees £2 weekly. Tuition, board, residence.

Vacancy for Lady or Gentleman Pupil, on Up-to-Date Poultry Farm. Beautiful healthy spot, most comfortable home. Young society.—Simmons, Hembury Fort, Honiton, Devon.

GENTLEMAN PUPIL Required on Small, Up-to-Date Poultry Farm. No fee for one who is willing to assist generally. Board out.—Ruddle, The Poultry Farm, Tangmere, Chichester.

POULTRY FARMING.—Miss Bennie, Balgownie, Kingcase, Prestwick, Ayrshire, offers Thorough Training, all branches, practical and theoretical. Very moderate terms to Working Pupils.

### EXCHANGE.

To Exchange.—Four Cam Padman Cockrels, sire's dam, 276, hens 220-236, for same strain, as good April hatched. —Moncrieff's Poultry Farm, Little Mongeham, Deal, Kent.

### WANTED.

#### APPLIANCES.

One or Two HEARSON or PHIPPS; hot-water; 100-egg size Incubators, for gas preferred.—Foster, Brook Vale Farm, Simister Lane, Rhodes, near Middleton, Manchester.

### HENS.

Wanted, AUSTRALORP Hens, 1920 or 1921; genuine pedigree strain.—Mrs. Rush-ton, Barnacre Lodge, Garstang.

### SITUATIONS WANTED.

LADY Requires Post on Poultry Farm; experienced incubating, rearing, etc. A good worker.—Box 171, "Eggs," 94, Farncombe Street, London, S.E.16.

Situation Required as ASSISTANT on Poultry Farm; capable building houses and appliances; practical knowledge of hatching, rearing, and general work.—Gibson, Gordon Lodge, Basildon, Essex.

WORK WANTED on Poultry Farm for young man; year's experience on M.S.P.B.A. farm, two on another; good carpenter; wages £1 week, board, lodging.—Shorting, Tenbury.

### SITUATIONS VACANT.

WANTED, Gentleman, board with, and assist, Public School Man running small up-to-date Poultry Farm, Somerset. Must be strong and keen.—Box 172, "Eggs," 94, Farncombe Street, London, S.E.16.

WANTED, Single Man, experienced; reference; with organising ability. Take charge Poultry Mixed Farm. — Box 173, "Eggs," 94, Farncombe Street, London, S.E.16.



### To all Members of the S.P.B.A.

and others who have not yet tested the magnificent results to be obtained from the regular use of "Bycolla" for feeding Poultry. Do not hesitate in applying at once to your dealer for a sample bag.

"Bycolla" aids the health and stamina of the birds, insuring a permanent increase in the egg output without impairing future welfare.

### CONVINCING TESTIMONY.

#### READ THE FOLLOWING LETTERS—

"I am glad to be able to report that the last ton lot I purchased as a trial lot, has proved very satisfactory, indeed, increasing the egg yield by about 9 per cent., and the young stock has thrived wonderfully since using it."  
"I beg to inform you that the experiments I carried out with the sample cwt. of your fish meal, have given satisfactory results."

# BYCOLLA

REGD

CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL.

### SPECIAL REDUCTION IN PRICE.

Terms: Cash **NOW 26/-** per Cwt. with Order. Bags Free. Carriage Paid. England and Wales.

Subject to Special Discount to Members of the S.P.B.A. on all orders sent through Secretary.

Also Sold by Dealers in 7lb. Bags. Price 2s. 3d.

**BICOL LTD., HOPE STREET, GRIMSBY.**

BYCOLLA is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spices, should be given.

NOTE.—Not more than 10 per cent. of Bycolla should be added to each mash to ensure best results.

The Analysis of Bycolla shows a very high proportion of Food Units, viz.: 154, as follows:—Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum





IF YOU ARE A BUYER OF

**SUSSEX GROUND OATS  
POULTRY CORN  
BARLEY MEAL  
AND ANY OTHER KIND OF FOOD**

It will pay you to write for our samples  
and Prices. Free on application.

We make the "Wycot" Mash  
(See last week's "Eggs").

**M. HANCOCK & SON,**  
(Dept. E)

**Mersham Mills, Ashford, KENT.**

Try us for your WET AND DRY MASHES.  
made to your own requirements.

We offer the following:—

	per cwt.
	s. d.
NEWMAN'S POULTRY MASH	15 0
WYECOT	11 0
BEAN BROAD	11 0
BEAN ORDINARY	8 0
MAIZE GLUTEN FEED	12 0
SUSSEX GROUND OATS	20 0
WYECOT MEAL	22 0
GLOVER MEAL	18 0
ENGLISH CLIPPED OATS	16 0
Special Line Best MEAT MEAL	21 0

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
**PUBLIC HALL, HADLEIGH, ESSEX.**

**NOTE THESE  
PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in rela-  
tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

**MEALS**

Maize Meal (Fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	16/-
Brans	8/-
Middlings	11/-

ALSO—Maize (whole), Bar-  
ley, Oat Feed, Barley Meal, Bis-  
cuit Meal (Poultry), Service Meal  
(Fine), Cockle Shell, Flint Grit,  
Mixed Grit, Pure Oyster Shell, in  
K. and M. Sizes.

Prices on Application.

Resolve to try these **ECONOMI-  
CAL QUALITY FOODS** to-day.  
Order through Secretary,  
S.P.B.A., and get your discount.

*The* **Service Food Co.**  
VICTORIA MILLS  
GRIMSBY

Light Sussex, R.I.R. W. W.  
Anconas, White, Black and  
horn Pullets. April and May  
8/6 to 15/-. Also 1921 Hens, as above  
10/6.

Bred from High Class Utility

**FRANK HODGES, M.S.P.**

1, Clock View Street,

**BEECHOLIFFE, KEIGHLEY**

**"ZENITH TRAP-NE"**

As used by the Large Poultry  
Also in the Premier Laying Com-

FRONTS, 3/- each, carriage

**WIGNALL**

Poultry Appliance Builders  
LONGTON, Near PRESTON

**NO SLET and DISTRICT UTILITY POULTRY**

(Affiliated to N.U.P.S.A.)

Will Hold Their

**ANNUAL SHOW on November**

In the Y.M.C.A. Room, Sale and  
Car Yermans. Hunslet Car.  
24 Classes. All Guaranteed

Judge: Mr. FRAZER, Newcast

Schedules from J. W. West, 14, Bury

Please mention "EGGS" when

replying to Advertisements

**Miss D. E. KITCHIN,**

N.U.P.S. & S.P.B.A.,

**GOLD MEDALLIST.**

Her Rhode Island Reds have proved their  
worth in British Laying Tests.

**TRY THEM**

For Stamina—High Fecundity—  
1st Grade Eggs—Winter Layers.

*They are Second to None.*

**ABSOLUTE SATISFACTION GUARANTEED.**

1921 hens from 10/6. 1922 pullets from 15/6.  
Stock cockerels from 25/. Breeding Pens..

Stamps for particulars to

**Vicarage Poultry Farm,**  
HARDINGSTONE, NORTHAMPTON.

All birds trapnested.

Pupils taken.

**Mrs. MUMFORD,**

N.U.P.S., S.P.B.A.

**Rhode Island Reds.**  
(CROWLEY BOUCHER.)

Eggs from these Birds won a Premium in the "Daily Mail"  
War Food Competition—Professional Class.  
Also First Prize, National Utility Poultry Show, 1921.

**White Leghorns.**  
(PADMAN STRAIN.)

**Light Sussex.**  
**Runner Ducks.**

All Breeding Pens contain only Hens with High records.  
headed by high fecund Cockerels.

**NO PUPILS.**

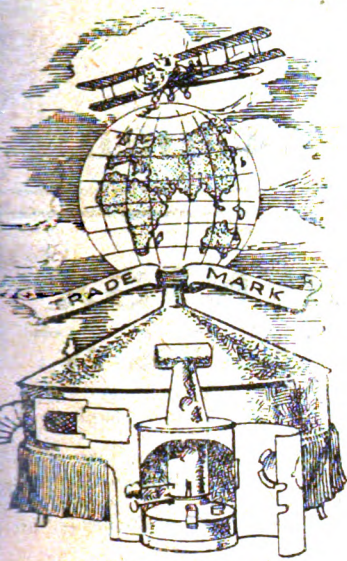
**Greenfield Poultry Farm,**  
**LIPHOOK, HANTS.**



If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
**AUSTRALIAN MUTUAL PROVIDENT SOCIETY.** (A.M.P.) Established 1848.  
 The Largest British Mutual Life Office.

ASSETS	£48,000,000	NEW ORDINARY BUSINESS for 1921	£2,855,000
ANNUAL INCOME	£7,000,000	TOTAL ORDINARY ASSURANCES IN FORCE	£137,000,000

**PURELY MUTUAL. ALL PROFITS BELONG TO POLICY HOLDERS. EVERY YEAR A BONUS YEAR.**  
 Surplus (Ord. Dept.) Divisible, 1921, £1,400,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War  
 London Office: 73-76, KING WILLIAM STREET, E.C.4. W. C. FISHER, Manager for the United Kingdom.



Patent No. 172434.

A Striking Testimony—

## "UNIQUE" HOVER DEFIES THE ELEMENTS.

Remarkable Letter from Poultry Farmer:—

Brook Vale Poultry Farm,  
 Rhodes,  
 Middleton,

March 21, 1922.

Sirs,—  
 I am writing to let you know what good  
 I have had from your "Unique"  
 Hovers. I placed two of these in  
 a wooden House containing 300 Chickens.  
 On Saturday night, March 5th, we ex-  
 perience a very strong gale, in which my  
 wooden House was blown down, leaving the  
 Hovers on the ground. The wind blew  
 chaff from under the Hovers, and to  
 surprise neither of the lamps was  
 blown out. If they had been the entire  
 flock would have been starved to death. I  
 am satisfied the "Unique" Hovers are the  
 best on the market, and are all your  
 advertisement claims them to be; they fully  
 live up to the motto, "Second to none."

Yours faithfully,

(Sd.) WALTER FOSTER.

CATALOGUE FREE.

H.C.B. Poultry Appliance Co.,

Willow Bank Farm,  
 Little Moss, Ashton-under-Lyne

## TIMBER!

T. G. and B. Boards.

1in. x 5in.	13s. 0d.
2in. x 5in.	10s. 9d.
3in. x 5in.	9s. 3d.
4in. x 5in.	10s. 0d.
5in. x 4in.	7s. 3d.

Plywood (Birch).

3 M/M 59in. x 39in. 10s

## TIMBER!

Good Quality Battens.

3in. x 6in.	38s. 0d.
3in. x 3in.	17s. 6d.
3in. x 4in.	24s. 6d.
2in. x 3in.	12s. 0d.
2in. x 2in.	8s. 0d.
2in. x 4in.	15s. 0d.
1 1/2in. x 2in.	5s. 0d.
1in. x 2in.	4s. 3d.
3/4in. x 2in.	2s. 6d.

## TIMBER!

Weather Boards.

3in. x 5in.	7s. 6d.
3in. x 4in.	6s. 0d.

Sawn Boards.

3in. x 5in.	7s. 6d.
3in. x 5in.	8s. 9d.
1in. x 5in.	11s. 6d.
1in. x 9in.	32s. 6d.

Spiking, 4d. per length extra.

ANY SPECIFIED LENGTH CUT.

All Prices per 100 feet, carriage paid on orders over £2.  
 Please Send Cash with order, and also state nearest railway station.  
 Good Quality Roofing Felt in Rolls, 12 yards x 36in., at 6s. 3d. per roll.  
 FOR A SQUARE DEAL. SEND YOUR ORDERS TO

## STANLEY BARNES & Co., Timber Merchants

Phone: 2183 CENTRAL. 67, Dale Street, LIVERPOOL.



BRITISH  
 AND  
 BEST.

Established  
 1893.

Our BEVEL ENDED SPRING-CLIP CELLU-  
 LOID RINGS—The best and most popular  
 of all patterns. Ends bevelled—nothing  
 projecting—giving a neat jointless appear-  
 ance.

NUMBERED CELLULOID RINGS, 12  
 Colours, 12, 10d.; 36, 2s. 1d.; 72, 3s. 9d.  
 CELLULOID RINGS (without numbers), 18  
 Colours, 12, 9d.; 36, 1s. 9d.; 72, 3s.  
 3-COIL SPIRALS, 12 brilliant colours, 12,  
 9d.; 36, 1s. 9d.; 72, 3s.

IMPROVED INTERLOCKING ALUMINIUM  
 RINGS, numbered consecutively or year,  
 12, 9d.; 36, 1s. 6d.; 72, 2s. 6d.

All Rings Post Free. The Trade Supplied.

HUGHES, 27, HAMPTON HILL,  
 MIDDLESEX.

## FELT HOUSES

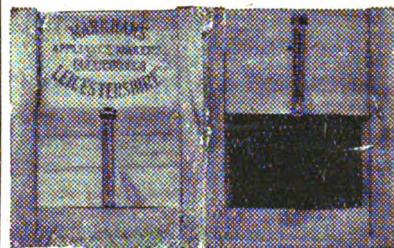
Durable and Economical Poultry  
 Houses. Write for estimate giving  
 required dimensions. Despatched  
 within 48 hours. Carriage Paid.

R. SLIMMAND, POULTRY APPLIANCE  
 MANUFACTURER,  
 Dept. N, St. Mary's Road, OXFORD

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches,  
 1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.  
 Trap-Nesting Record Books, 6/-.  
 Hatching Record Books, 7/6 and 11/-.  
 Stud Books for Poultry, 6/-.  
 Incubator Records, 1/3 doz.; 7/- per 100.  
 Backyarder's Complete Record, 8d.  
 Specimens Free.

RIPPIN & BAKER,  
 THE NEWARKS, LEICESTER.

## The "MARKHAM" Trap-nest Front



The simplest on market. Never failing action  
 Singles, 3/6. Sets of 3, 10/- Carr. Paid.  
 W. & T. MARKHAM, S.P.B.A..  
 Dept. "A." QUENIBOROUGH, LEICESTER.

## IDEAL for POULTRY

KENT. Within one hour of London.  
 Charming situation, 500ft. up. MODERN  
 FREEHOLD RESIDENCE, with eight acres,  
 known as "Woodland," Fawkham. Three  
 reception, bath, four bedrooms; stabling  
 and excellent poultry houses; kitchen gar-  
 dens, fruit trees, grass, etc.  
 Vacant Possession.  
 For Sale, Private or by Auction, on  
 October 26th Next.

Auctioneers:—

GODDARD and SMITH,  
 22, KING STREET, ST. JAMES, W.1.

## The S.P.B.A. BADGE.

Gold Letters on Blue  
 Enamel.

1/- post free.



TOM NEWMAN,  
 The Beeches, Rudgwick  
 HORSHAM, SUSSEX.



## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, mated  
 White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn.  
**BLACK MINORCA COCKERELS.**  
**24 LIGHT SUSSEX YEARLING HENS, L2.**

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**



THE GREEN-GLOVED MEAL PEOPLE.

*If you want Autumn and Winter Eggs*

**Don' let your hens 'hang' in their moult.**

As soon as they have shed most of their old plumage give them our GROWING or FEATHERING MASH for a few weeks; it may easily make a month or two's difference to their starting to lay again.

*May we send you our September Price List.*

**THE STEYNE FOODS Co.,**  
**STEYNING, SUSSEX.**

### MINERAL SALTS

A high-grade mild aperient containing valuable Iron Tonic properties. For birds in the moult and for generally toning up the system it has no equal.

*In patent air-tight tins,*  
 2-lb. size, 2/6. 4-lb. size, 3/9  
 CARRIAGE PAID.

The Cost is next to nothing—  
 LESS THAN A FARTHING PER BIRD.

**ALBION THORPE & SONS,**  
 POULTRY FOOD MAKERS, RYE, SUSSEX

### POULTRY BREEDERS

#### DRIED YEAST.

Analysis.	per cent.
Moisture	6.73
Oil	.60
Albuminoids	46.94
Carbohydrates	26.32
Woody Fibre	.93
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

#### OSSIFIED YEAST.

Analysis.	per cent.
Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
†Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
† " Phosphate of Lime	18.00
Sand and Silicious matter	0.33
Total Food Units	150

PRICES:—  
 Dried Yeast, 20/- per cwt.  
 Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
 Cash with Order.  
 10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
 Derby Road, BURTON-ON-TRENT.

### MOORSWOOD POULTRY FARM,

**HERONS GHYLL, UCKFIELD, SUSSEX**

Proprietors: Mrs. James Hope & Miss A. Howard  
 Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
 Rhode Island Reds (s.c.) Light Sussex  
 and White Wyandottes.

PULLETS from £1. COCKERELS from £1 1s.  
 A Limited Number of 1921 PULLETS at 12/6.

FOR INTENSIVE  
 EGG CULTURE.

### RENTOX

#### A NECESSITY

RENTOX is manufactured from fresh, sweet blood.

RENTOX is sterilised.

RENTOX contains nearly 90 per cent. Albuminoids.

RENTOX contains no spice, no drugs, no chemicals, no grit.

RENTOX contains no bulk waste.  
 RENTOX is ALL FOOD—PURE FOOD.

7lb. bag sent post free on receipt of 5s. postal order.

Post Sample and Full Particulars sent on request.

**Midland Cattle Products, Ltd.,**  
 Bordesley Street, BIRMINGHAM.

**Farnham Royal Open Show,**  
 NOVEMBER 8th.

**Village Hall Farnham Common**  
**BUCKS.**

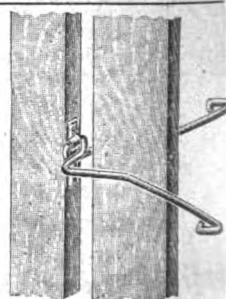
**POULTRY and RABBITS**

Schedules and List of Prizes Ready.

Apply Miss GORDON BARRETT, Hon. Sec.  
 Brockhurst, Farnham Royal, BUCKS.

#### THE ABDUCTOR POULTRY GATE LATCH

of utility  
 simplicity,  
 durability,  
 and  
 cheapness.  
 Used on  
 up-to-date  
 farms  
 throughout  
 the country.  
 Cannot go  
 wrong or get  
 out of order,  
 and will last  
 a lifetime.  
 Price: 1/-  
 each.  
 Postage, 4d.  
 extra each.  
 6 or 12, 1/-  
 extra postage.



Patent No 167938  
 Sole Manufacturers:  
 R. O'H. P. THEOBALDS, White Wings, P.F.  
 St. Mary Bourne, Nr. Andover.

# SMASH FENCING PRICES.

*Here's Your Chance to Save Money*

**Grasp this opportunity now, it can never be repeated.**

WHEN you are building the fences round your new breeding pens why use the old style fine wire open mesh wire netting when you can build your fence with this marvellously strong steel wire mesh fencing at a lower cost? Don't use boarding or galvanised iron at the bottom of your fences—use steel wire mesh—our birds cannot fight through it, and it breaks the force of the strongest wind. For a six-foot fence use wire mesh at the bottom and ordinary 3-inch mesh wire netting at the top, thus getting the cheapest, and strongest fence on the market.

Steel wire mesh fence is rust-proof and guaranteed proof against all weathers, and it will last over twenty years without necessity of repair. Once the stock is sold similar material can never again be offered at this ridiculous price. So do not hesitate but order all you want **NOW**.

#### OTHER USES.

**FOR BROODERS.**—You can make Brooders absolutely rat and vermin proof by covering the bottom with this material at a cost of less than a shilling.

**FOR SITTING COOPS.**—You can give the birds the maximum of fresh air by using a front covered by this material, also making the coop rat-proof at a cost of a few pence.

**FOR BROODER-HOUSE FENCING.**—You should have rat-proof fences for your Brooder-house runs. There is nothing to beat this material, and at the bargain price of this material its cost is a mere trifle.

**FOR BROODER STOVE GUARDS.**—To keep your chicks safe from the fire you want a fireguard; the usual materials are of little use, but this material is unbeatable, making your stove absolutely fireproof at a cost of a few pence.

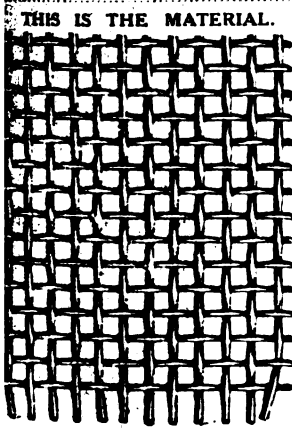


Illustration drawn exact size.

## LOOK AT THE PRICE!

Rolls 70 feet long by 36in. wide, containing 200 super feet.

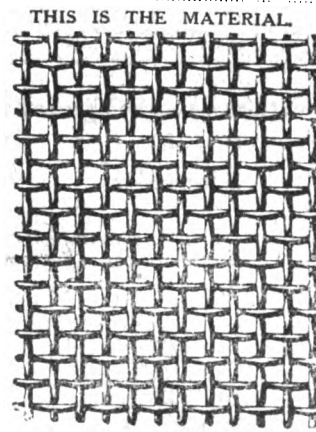
**20/- per roll.**

Rolls 100 feet long by 36in. wide, containing 300 super feet.

**30/- per roll.**

Free on Rail. Cash with Order.

**It is NOW or NEVER.**



Note the closeness of the Mesh.

**A. E. W. PHIPPS,**  
Midland Works, No. 4 HARBORNE, BIRMINGHAM.

**"TOOKTOOK" LAYING MEAL**

A Thoro'bred Amongst Poultry Foods. An Absolutely Pure Blend of those Meals calculated by experience to be the most suitable for Heavy Egg Production; Scientifically Balanced, 97½ per cent. Digestible, Palatable, Easily Assimilated, and with an Albuminoid Ratio of 1 to 3. Rich in Vitamines.

15 6  
per  
cwt.



**"TOOKTOOK" DRY MASH, 16/6 per cwt.**

**"TOOKTOOK" MIXED GRAINS, 16/6 per cwt.**

ALSO

**PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.**

	per cwt.		per cwt.
	s. d.		s. d.
CRUSHED MAIZE	13 0	SPECIAL POULTRY OATS	15 6
SMALL MAIZE	14 0	FEEDING WHEAT	14 0
MAIZE CHIPS	14 6	SUSSEX GROUND OATS	20 0
MAIZE MEAL	11 9	WHITE FISH MEAL	18 0
GLUTEN FEED	10 6	FINEST MEAT MEAL	22 6

**All Free on Rail, Greenock.**

*Terms—Nett Cash with Order.*

*Complete Price List FREE.*

**MACFARLAN, SHEARER & CO.,**  
POULTRY FEEDING SPECIALISTS, (Department 36).  
**GREENOCK, SCOTLAND.**

**SPECIAL IRONMONGERY BARGAINS:**

Hinges, Butts, 1s.; Back Flaps, 1s. 8d.; Tees, 3s. 3d. per dozen pairs. Best 5in. Press Locks, 1s. 2d.; Strong Rim Locks, 1s. 9d.; Padlocks, 1s. each. Mixed Screws, about two gross packets, 1s. Hasps and Staples, 1s. 8d.; Knobs, 10d.; Iron Buttons, 6d. per doz. Jack Chain, 1s. 6d. doz. yards. Best Bright Wire Nails, 1½in., 2in., 2½in., 27s.; 2½in. to 6in., 24s. cwt. Bolts and Nuts, 3s. gross.

**SURREY VALUE Co., Redhill.**

**R. WALLBANK, M.S.P.B.A.**  
Stairs P.F. Oxenhope, Keighley.

I can spare a Limited Number of my Pedigree Laying Strain, 1922, Buff Rock and White Wyandottes, mostly laying; 15s. to 25s. All in open fields, under Cock Hill. Highest part in Yorkshire.

R.I. Reds, 8s. 6d. to 10s.; White and Brown Leghorns, 6s. to 10s.; Cockerels, 8s. to 25s.; Silver Campine Cockerels, 10s. to 15s.; 1921, 12s. each.

**Not**

because WE say our birds are in every way to be commended.

**But**

because customers and others who have seen our farm are so well satisfied, should you send us your enquiries.

**High Praise Indeed.**

E. Hales, Esq. Sandown,  
West Mersey Poultry Farm, Isle of Wight.  
13th Sept., 1922.

Dear Mr. Hales,—

I enjoyed my recent visit to your farm exceedingly, and was quite pleased to note the excellent quality and type of the stock you are breeding.

You realise the importance I attach to type and stamina for egg production, and providing you select on the lines you have intimated there is no doubt you will possess some of the finest breeding pens possible.

A. PRIEST.

Newlands Poultry Farm,  
Wigmore, near Chatham.  
8th Sept., 1922.

Dear Sir,—

Received Cockerels yesterday, in good condition. They are splendid birds, and I am very pleased with them. I hope they will be as good as they look in the breeding pens.

W. PYSDEN.

12, Victoria Road,  
Madeley, Salop.

Mr. E. Hales.  
Dear Sir,—

Received birds on Thursday quite safe.

I am delighted with them. They are a fine lot. I will write you again later on and let you know how they go on, and what my poultry friends say of them.

I have sent the crate back to-day; this will speak for itself. I do not want to keep them for the three days for approval; am well satisfied first hour. Two of them laid last night and are again to-day.

J. E. G. ASTON.

**All Breeding Pens & 1921 Cockerels now sold**

Only a few February hatched 1921 Pullets left. W. Leghorns (Padman and Newman strain).

R. I. R. (s.c) Crowley and Boucher or Crowley strain.

**Price, 12/6 to 15/- each, carr. paid.**

**All Birds on Approval four days.**

Further particulars as to Egg Records etc., with pleasure.

**West Mersea Poultry Farm,**  
**ESSEX,**  
Nr. COLCHESTER G.E.Ry.

**EXCEPTIONAL OPPORTUNITY.**

**Leckhampton Poultry Grit.**

**THE IDEAL GRIT AT LAST.**

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

**Analysis—**

Calcium Carbonate	89.30	Calcium Sulphate	traces only
Silica	3.03	Moisture, organic matter, etc.	3.19
Oxides of Iron and Alumina	3.92		
Calcium Phosphate	.56		100.00

PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £2 10s. 0d. per ½ ton;  
£4 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per ½ ton;  
£3 0s. 0d. per ton.

*Quarried and Prepared Solely by*

**The Leckhampton Quarries Co., Ltd.,**  
**CHELTENHAM, GLOSTERSHIRE.**

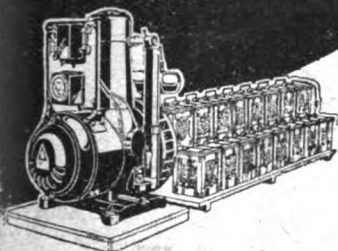


Early Hatched s.o. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Beucher's World Record Hen No. 37, which recorded 1045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley-Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

*Let Artificial Lighting in the Pen  
increase the laying power of your hens*

Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office: 75, Victoria Street, Westminster, S.W.1.



**MILLER'S PARADISE HOUSE**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns

For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time. His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant. Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from  
— ROBERT MILLER, —  
DENNY, SCOTLAND.

**ROBERT MILLER,**



Discounts for  
Quantities, with an  
additional 5% on  
all orders received  
through the S.P.B.A.

Bags free, car. paid  
England & Wales.

Samples Free on  
Application.

	per cwt.	s. d.
MEAT MEAL (18 per cent. Oil, 46 per cent. Albuminoids, 19.5 per cent. Phosphates)	22	0
MEAT and BONE (Grade I. (11 per cent. Oil, 38 per cent. Alb., 37 per cent. Phosphates)	20	0
MEAT and BONE (Grade II.) (8.5 per cent. Oil, 36 per cent. Alb., 39.5 per cent. Phosphates)	19	0
PRESERVED GREEN BONE, Finely Ground (6.5 per cent. Oil, 32 per cent. Alb., 46 per cent. Phosphates)	18	0

Sole Manufacturers:

**The DENTON MANUFACTURING CO.**  
DENTON, Near NEWHAVEN, SUSSEX.

**JOHN A. BETTS,**

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

EGGS and STOCK BIRDS and DRAKES.

Eggs per doz., 6/-, 100, 40/-. 1922 Cockerels, 15/-. 1921 Pullets, 10/- White and Black Leghorn and Minorca 1922 Pullets, 7/6 to 10/-. Breeds kept: Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Sussex, R.I.R., Brd., Rks., Bl. W. and Brn. Leghorn, Buff and White Orpington, Aylesburys, Khaki-C's. Buff Orpingtons, and Runners (both colours).

## WE LOOKED ROUND

At the Dairy, but did not  
see anything to Beat this:

	per cwt.	s. d.
Newman's Laying Mash	15	0
Newman's Breeding Mash	16	0
Less 20s. per ton for ton lots.		

NOTE.—These Mashies contain all the "Blessed Vitamins" and Mineral Matter necessary, being impregnated with Cod Liver Oil, and containing a small percentage of Alfalfa Meal.

Also:

	per cwt.	s. d.
Maize Germ Meal	12	6
Maize Gluten	12	6
Flaked Maize (Plain)	14	0
Flaked Maize and Wheat	17	6

Bags Free. Carriage Forward.

Other Goods as per Previous Lists.

Write us. Come to see us. We are out to  
do your business.

Look Round for Our Stand at the Utility  
Show, Bristol, November 8th and 9th.

**Frank Shearn & Co., Ltd.,**

Millers and Corn Merchants,  
**MIDSOMER NORTON, SOM.**

'Phone 51.

**"Poultry Foods and Feeding,"**

ALSO

**"Chicken Rearing,"**

BY

**TOM NEWMAN.**

*Rudgwick, Sussex.*

Price 6<sup>1</sup>/<sub>2</sub>d. Each,

Post Free.

**Mrs. ALEC WILSON**

Offers for December Delivery

**White Wyandotte Cocks  
and Cockerels, also  
Pullets (now in lay)**

From her Prize-winning, Trap-  
nested Strains.

Write for Free Catalogue.

**GARTH WYANDOTTE FARM,  
GARTH, BRECONSHIRE.**

**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**

**Light Sussex.**

**Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.**

**Only the VERY BEST supplied.**

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels  
 from large egg, high record L2 Hens.**

**Coaley Fawn Ducks**

First Position for SIX MONTHS at Bentley.  
 Secured BRONZE MEDAL.  
 Total for 10 Months, 1,106 Eggs (average  
 over 221 per bird).

I am now Booking Orders for Eggs and  
 Ducklings for 1923.

**PULLETS:** White Wyandottes, Buff  
 Orpingtons.

**COCKERELS:** White Leghorns, Light  
 Sussex.

**BREEDING PENS:** Rhode Island Reds,  
 Black Leghorns.

**E. Brooke Wratten** (Successor to  
 Miss Edwards)  
**Coaley Poultry Farm,**  
**GLOUCESTERSHIRE.**

**S. & J. PARSONS,**  
**The Poultry Farm, Musbury, Devon.**

Breeders of the Highest Class Utility White  
 Wyandottes and White Leghorns, and consistent  
 winners in the various laying competitions.

Specialist Breeders of High Pedigree Cockerels.

**1922 Cockerels from 21/- to 34/- each.**

**1921 Cockerels from 15/- to 30/- each.**

**1922 Pullets (Early Hatched) 21/- to  
 42/- each.**

**A few Special 1920 Hens at 9/- to  
 12/6 each.**

Our Book "The Secret of Egg Production," 3/.

Further particulars on application.

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There  
 is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried  
 Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
 will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

**Also for fattening:—**

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH  
 ASSOCIATION.**

**Terms:—Cash with Order.**

**Carriage Forward Heathfield or London.**

**CARR, MACDONALD & CLEVELY, LTD.,**

**BRITANNIA MILLS,  
 HEATHFIELD, SUSSEX.**

**6, BROAD STREET,  
 RATCLIFFE, LONDON, E.1.**

**BEST ENGLISH RINGS**

*These are NOT the Cheap Imported  
 but English Made.*



**LARGE  
 STOCKS  
 HELD.**



**SPIRALS IN TEN COLOURS.**

Red, Green, Light Blue, Violet, Dark Blue,  
 Yellow, Pink, Brown, Black, White.

**FLAT BANDS.** in 10 plain colours, 5 strips  
 Aluminium, any Number and Year.

**ALL ONE PRICE.**

	500	400	300	150	100	50	25
Day-Olds	10/-	8/-	6/-	3/-	2/-	1/3	1/4
2 months	13/9	11/-	8/3	4/3	3/-	2/-	1/4
Half-Grown	15/-	12/-	9/6	5/-	3/6	2/-	1/4
Light Breeds	25/-	20/-	15/6	8/3	5/9	3/-	1/4
Heavies	26/-	21/-	16/6	8/3	6/3	3/3	1/4

**All Subject to 5 per cent. Discount.**  
**An Extra 5 per cent. to M.S.P.B.A.**  
**Post Free.**



**FULL LIST  
 POST  
 FREE.**



**ENAMELLED CLOTH FOR SHUTTERS.**

6/- square yard; 6 yards, 3/6 yard; 12 yards,  
 5/3 yard.

**VERMICIDE.**

A most powerful Killer of Vermin and all  
 parasite life, a good disinfectant for  
 Incubators, Brooders, Houses, etc., etc.

**ONCE USED, ALWAYS USED.**

1 Pint, 2/6; 1 Quart, 4/6; 2 Quarts, 5/6;

Gallon, 8/6.

Carriage Paid.

Less 5 per cent., S.P.B.A.

**PENETRAS.**

**FINEST PRESERVATIVE ON THE  
 MARKET.**

Not the Ordinary so-called Creosote.  
 1 or 2 gals., 3/3 gal.; 5 gals., 3/- per gal.  
 40 gals. (or about), cask £2 10s. 0d.

Tins free. Cask Charged. Car. forward

Less 5 per cent., S.P.B.A.

**FENCING STAKES.**

Per 12. Pointed and Penetrated.

4ft., 6/6; 5ft., 7/3; 5ft., 8/-; 5ft., 8/6;

6ft., 9/3; 7ft., 10/-; 7ft., 10/6.

Less 5 per cent., and an extra 5 per cent. to

S.P.B.A. All Carriage Forward.

**GALV. WIRE NETTING.**

24in. 36in. 48in. 60in. 72in.

1in. .... 17/2 24/5 32/7 41/7 48/9

2in. .... 10/6 14/3 19/- 23/9 28/6

3in. .... 7/11 10/11 14/6 18/2 21/9

Per Roll, 50 yards. Carriage paid orders £7.

Less 2 1/2 per cent., and an extra 2 1/2 per cent.

S.P.B.A.

**FINE BISCUIT MEAL.**

As used on my own farm. Splendid Egg  
 producer and doubles its bulk, 24/- cwt.

Carriage paid.

Reduction on ton lots.

FLINT GRIT, 5/6 cwt., carriage ford.

OYSTER SHELL, 10/- cwt., carriage ford.

COCKLE SHELL, 7/9 cwt., carriage ford.

Less 5 per cent., and an extra 5 per cent.

S.P.B.A.

**TRAP-NEST FRONTS.**

One of the Simplest and Noiseless Traps on

the market.

4/6 each, post free. Six or more, 4/- each.

Reduction on large quantities.

**C. A. SYDENHAM HANNAFORD, M.S.P.A.,**

The Leading Maker of Good Appliances in

this country.

**Hamworthy Junction, Dorset.**



# BE ENGLISH GALVANISED



## Wire Netting

OF SUPERIOR  
AND GUARAN-  
TEED QUALITY.

Heavily Galvanized.  
Direct from Factory.  
Made in Norwich,  
England. Greatly Re-  
duced Prices. £8 5s.  
lots carriage paid  
England and Wales.  
50 yard rolls.

Our netting rolls out straight and flat  
like a carpet. If prices are lower than  
ours, it is highly probable that it is  
Foreign and Inferior.

### Special Lines—

Prices strictly net. Sole terms—Cash with  
order.

mesh	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	gauge
	Wide	Wide	Wide	Wide	Wide	Wide	
1in.	9/-	16/4	23/3	30/11	38/7	46/4	20
2in.	8/6	16/-	18/7	18/1	22/7	27/1	19
3in.	4/-	7/3	9/10	12/3	16/8	19/8	19

Sheep Netting, 3-ply Selvages, 4 in. mesh, 16  
inches, 26 inch, 15/8; ditto, with centre  
strand, 17/8. Special Galvanised Netting  
Samples, 3/6 per 1,000. Strong Wire Netting  
Pens for holding bottom selva to ground,  
1/2 per dozen. Galvanised Binding Wire,  
No. 10. Best Wire Cutters, 2/6 pair. For  
all other sizes, gauges, and widths see  
large list, free. Special low quotations for  
Best Galvanised Barb, Fencing, Strand and  
other Wires. Corrugated Galvanised Sheets  
and Accessories. Sanded Roofing Felt, no  
sewing required, 15 yds. x 1 yd. rolls, 5/6  
per roll, carriage paid 20 rolls. Wicks  
Bros' Famous Show Pens of guaranteed  
and superior quality, 27in. x 24in., 7/6, extra  
ends 2/6; 18in., 3/6, extra ends 1/6. Show  
Pen Fronts, with sliding doors, 27in. x  
24in., 2/6; 18in., 2/6. Strong Galvanised  
Cups, 6d., 9d. and 1s. each. Wicks Bros'  
Advertising Line, the Poultry Keepers'  
Tool Set, containing eleven tools, including  
hammer, 2/- per set. All carriage paid.

**WICKS BROS.,** Wholesale  
25, CATTLE MARKET, NORWICH.  
Phone: 1438. Contractors to H.M. Government.  
All prices subject to alteration without  
notice.

## G. R. PINDER, M.S.P.B.A., N.U.P.S

Offers

A Limited Number of BREEDING HENS in

WHITE LEGHORNS.

WHITE WYANDOTTES.

ALL are Guaranteed to have 1st winter  
records of 45-60 large eggs, and have been  
bred since 1912 from the VERY BEST.

1922 Birds: 7/6 each.

1921 Birds: 12/6 each.

On Approval.

STOCK COCKERELS. Now is the time to  
book a good bird bred from individual high  
record hen in W. Leghorns, W. 'Dottes,

R.I. Reds and L. Sussex.

Also Khaki-Campbell Drakes.

N.B.—All reared on free farm range.

Full Particulars on Application.

Lindsey Poultry Farm, Carlton, Louth, Lincs.

## SPECIAL REDUCTIONS!!

Compare our Prices Prior to Stock-taking

White Australian Wheat, 15s.; Best Eng-  
lish Wheat, 13s. 6d.; Red Wheat, 13s.;  
Clipped Whole Oats, 12s. 6d.; New Round  
Maize, 12s.; Soudan White Dairi, 11s.; Best  
Mixed Fowl Corn, 12s.; Maize Meal, 11s.;  
Red Dairi, 10s.; Pure Sussex Ground Oats,  
15s.; White Middlings, 11s.; Broad Bran,  
8s. 6d.; Complete Laying Meal, 12s. 6d.;  
Best Fish Meal, 17s.; Best Meat Meal, 17s.;  
Uveco, 17s.; Lasco, 21s.; Sweet Clover Meal,  
10s.; Sterilised Green Bone, 15s.; Flint Grit,  
5s. 6d.; Oyster Shell, 7s.

MARCH CROSS PULLETS: 7s.

Prompt Despatch. No Waiting.

**GEO. THISTLEWAITE,** Corn Miller,

116, WAVERTREE ROAD, LIVERPOOL.

Phone: 332 Royal.

**Eggs Insured**  
in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

## Pedigree Utility Stock Cockerels and Pullets.

WHITE LEGHORNS, WHITE  
WYANDOTTES, S.C. RHODE ISLAND  
BEDS.

Pedigree Stock Cockerels a Speciality.  
Bred from individually recorded L2  
Hens, with high winter records. All  
Stock is sent Carriage paid and on  
full approval.

Pedigree for 3 generations supplied.

Send for my Detailed Price List.

**LINDSAY SCOTT,**  
(Life Member and Fellow, N.U.P.S.),  
THE WORLINGTON POULTRY  
FARM, MILDENHALL, SUFFOLK.

# BUCKEYE THE PERFECT INCUBATOR

## Guaranteed

to hatch more and stronger chickens than any other  
incubator; to operate satisfactorily in any temperature  
down to freezing, to require no artificial moisture, and no  
attention to the regulator from the time hatch is started  
until it is finished.

If you are interested in Incubators  
and Brooders and were unable to  
visit our Stand at the London  
Dairy Show, you would be well  
advised to write for our 'Buckeye'  
Booklet.

Sole Selling Agents for the United Kingdom:

**W. B. FORDHAM & SONS, Limited,**

(Dept. A) 36-40, York Rd., King's Cross, LONDON, N.1.

# STANDARD Colony Brooder

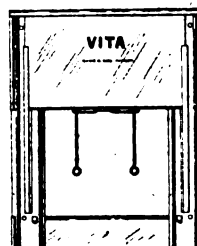
INSTALL THE

## All "VITA" Metal TRAP-NEST FRONT.

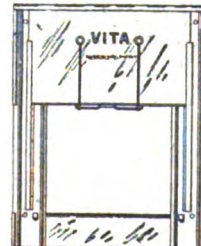
BECAUSE it is not made by hand labour,  
but manufactured on modern machines  
in large quantities, and is therefore the  
cheapest in first cost and cheapest always

CANNOT WARP OR CRACK.

THE NEST EVERYONE IS USING FOR DUCKS.



SET.



OPEN.

A SINGLE  
ACTION  
RESETS  
THE NEST  
OR LOCKS  
IT OPEN.

**THORP RODERICK MFG. CO.**

32, BROADWAY, BEDFORD.



**"UTILITY" TRADE MARK POULTRY FOODS**

Real Bargains until Parcels Cleared.

**Special Offers to S.P.B.A.**

	per cwt.	s. d.
500 bags Pure White Wheat Meal	12	0
500 bags Best Sussex Ground Oats	15	0
1000 bags Fine Biscuit Meal	14	0
500 bags Best Quality Fish Meal	15	0
1000 bags Maize Gluten Meal	12	6
500 bags Maize Germ Meal	11	6
1000 bags Best Mixed Fowl Corn	12	0
500 bags Heavy Clipped Oats	12	0
500 bags Dari Seed, Red 10/-, White	11	0
250 bags Manitoban Feed Wheat	10	6
200 bags Light Wheat, Good Value	8	6
100 bags Vegetable Charcoal	14	0
1000 bags Special Laying Meal, consisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal	16	0

F.O.R. Liverpool. Bags In. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL**'Phone: 2586 Royal. Telegrams: "Emphatic."  
Established 1868.**BRISTOL'S First ANNUAL  
ALL  
UTILITY POULTRY SHOW.**

November 8th and 9th.

**DRILL HALL, OLD MARKET STREET,  
BRISTOL.**

Judge, Mr. L. G. PRICE, C.I.P.K.

Entries Close November 1st.

PRIZES, 12/-, 6/-, 3/-. ENTRY FEE, 2/6.

Schedules from Messrs. Heaman & Norman,  
29, Sloane Street. Whitehall, Bristol.**DR. J. H. BALDWIN,**  
**SPRINGFIELD P.F. WIMBORNE, DORSET.****ONLY THE VERY FINEST STOCK in****White Leghorns,****White Wyandottes,****R. I. Reds (s.c.)****Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.**If you get them from "HOMEATLAST" it means  
**SATISFACTION!****ANCONAS, and THE ADJUSTABLE  
TRAP-NEST FRONT**

(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

**VICTOR P. WILLIAMS,**

Homeatlast Poultry Farm, BEXHILL, SUSSEX

A Small Farm with a Big Reputation.

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20-21 Bantams. Wyandottes.**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other Varieties.  
Also all kinds of Water Fowl, Fowls, Pheasants, White, Black Winged Blue and Specifier Pea Fowl, Partridges, etc. Send Three pence for Reply. Orders book now for Eggs.**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.**More and Bigger Eggs from your Poultry.**  
*can be obtained by feeding your birds on a natural and complete food.***PULBIS POULTRY FOOD**

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

*From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.***3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.**Made by the Manufacturers of  
**MELOX and MELOX MARVELS,**  
the **PERFECT DOG FOODS.****W. G. CLARKE & SONS, Ltd.,**

LIMEHOUSE, LONDON, E.



AFTER

**PULBIS.**



# EGGS

THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Published as a Newspaper.  
Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/6  
Six Months " " 6/4  
Three Months " " 3/3

## EXHIBITION and UTILITY Qualities Combined.

Stock that will give you  
satisfaction as EGG LAYERS  
TABLE BIRDS; breed  
ABLE CHICKS for you,  
which are worth taking your  
trouble to see.

BIRDS are TRAP-NESTED,  
ONLY 12 BIRDS BRED



**B**Y Careful Selection and Breed-  
ing, I have combined in my  
strain BOTH EXHIBITION  
AND UTILITY QUALITIES.

My Illustrated Price List and  
Mating List, which I send free  
on request, will give you full  
particulars.

*Among my Recent Successes in the Show Pens are:*

### BLACK LEGHORNS—

1st and 2nd, Royal Counties.  
1st, 2nd and 3rd, Royal.  
1st, 2nd and 3rd, Tunbridge Wells.  
1st and 2nd, Altrincham.  
1st and 2nd, Dairy Show.



### WHITE LEGHORNS—

1st, Sussex Agricultural.  
1st, Redhill. 1st, Uckfield.

### LIGHT SUSSEX—

1st and Sp., Redhill. 1st and Sp., Lewes.  
1st and Sp., Tunbridge Wells.

**ORDERS FOR EGGS AND CHICKS ARE NOW BEING BOOKED.**

*A few really good Cockerels left.*

*All birds sent on 4 days' approval.*

**HARRY KENT,** Stanbridge Poultry Farm, **Hooe, nr. Battle, Sussex.**  
COURT LODGE,  
Station: Pevensey or Bexhill.



# PRIEST & SHAW'S

## SPECIALITY—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

### Can Any Firm wish for Better Testimony?

Letter No. 78.

Berney Lodge,  
QUIST, NORFOLK.  
27th Sept., 1922.

Dear Sirs,—

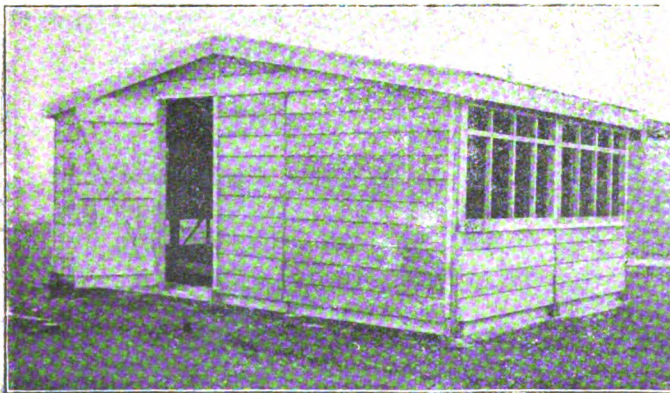
You can book eight very good White Leghorn Cockerels, to be selected in a month, and delivered latter half of February.

This season's results are to your credit. 168 March pullets in one house from October 1st to September 30th will average over 210. The April pullets have not done so well, as they did not get the start, but they will put up 175 to 180. I take the number of birds on the first of the month, and the number of eggs collected; eggs broken and soft-shelled are not in the count.

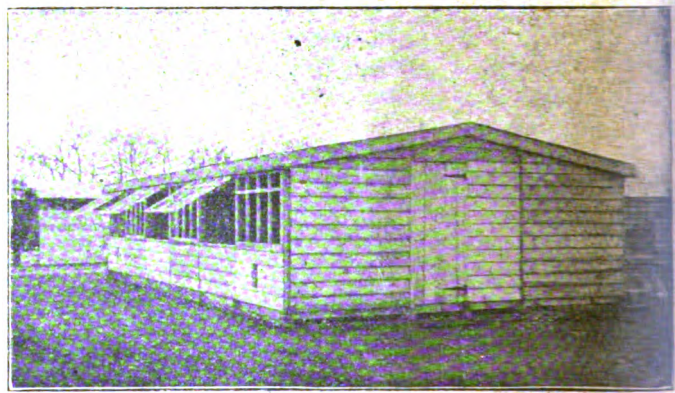
Yours faithfully,  
N. BUCHANAN.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Month of October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.



TWO UNITS: 10ft. x 15ft. A.P. MODEL.



SIX UNITS: 30ft. x 15ft. A.P. MODEL.

### EXTENSIBLE UNIT BUILDINGS

Reduce Incubation, Brooding and Rearing Risks to a Minimum, owing to Perfect System of Ventilation and Lighting.

Numerous articles in "Eggs" ascribe failures in Hatching, Brooding and Rearing mainly to faulty ventilation and to inadequate lighting. EXTENSIBLE UNIT HOUSES achieve a maximum of floor lighting with entire absence of ground drafts.

The Two Illustrations show a 2-Unit House, enlarged to one of 6-Units, converted from Brooder to Laying House.

When writing for free information state your requirements fully. COMBINED INCUBATOR and Brooder House Diagrams free.

Members are invited to inspect free, by appointment, a complete model plant in full operation. It comprises Incubator and Brooder, 4 Breeding Pens stocked with Bentley Strains, and Laying Houses, all of the extensible and convertible type.

## W. H. COLT, M.S.P.B.A., BETHERSDEN, KENT.

M.N.U.P.S.,

November 1st, 1922.

EGGS.

## 1922 PEDIGREE LAYING PULLETS.

On One Month's Approval.

**RHODE I. REDS**  
(Boscher's) March  
and April hatched.  
Dam's records 240-  
271. Sire's Dam 291.

**WHITE WYANDOTTES** (Barron's).  
220-237. Sire son of  
Wilson Beattie's  
Snowball.



**WHITE LEGHORNS.** Dams 250 upwards,  
sire's dam, Gilpin's 293-egg hen.

18/-, 21/- and 25/- each. Satisfaction  
Guaranteed.

Sept. C. CRAY POULTRY FARM, Ltd.,  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

## Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.

Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**

**ATHERBY HALL, SEDGLEY,  
STAFFS.**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2, 5s. 6d.;  
3, 8s. 6d.; 5, 13s. 2 owt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

55, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE THE QUALITY

4in. x 4in. T.G.B.	7s. 6d.	3in. x 5in. Saw'n Bds.	9s. 0d.	3in. x 1in. Battens	6s. 0d.
4in. x 5in. T.G.B.	9s. 6d.	1in. x 5in. Do.	12s. 0d.	3in. x 3in. Battens	18s. 0d.
4in. x 6in. T.G.B.	9s. 6d.	4in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	27s. 0d.
4in. x 5in. T.G.B.	11s. 6d.	1in. x 2in. Battens	4s. 0d.	2in. x 4in. Battens	16s. 0d.
1in. x 5in. T. & G.	13s. 6d.	2in. x 1 1/2in. Battens	6s. 0d.	3in. x 5in. Battens	40s. 0d.
4in. x 5in. Saw'n Bds.	6s. 6d.	2in. x 2in. Battens	8s. 0d.	3in. x 5in. W'th'bds.	7s. 0d.
		2in. x 3in. Battens	12s. 6d.		

per 100 feet. OUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special  
terms for large quantities. When ordering please state nearest Railway Good Station

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mills, SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS,  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock and Chicks, various  
ages, in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.), and Barred Rocks.  
Inspection Invited. Cash or Deposit. Tel.: 5073

QUALITY, PRICE, DELIVERY.	GRAIN, MEAL, GRIT, Etc. Etc.
	SEND FOR SAMPLES AND PRICES
JOHN W. BEVANS & Co., Tangier Rd., Portsmouth	

## SPECIAL LIME STONE GRIT.

NONE GENUINE WITHOUT THIS.  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.)

8s. 6d. per cwt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit

"Original Suppliers."

**E. A. PITTAM,**

"Malbreck," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It.."

## E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

## STOCK COCKERELS.

Full Pedigree supplied with every bird.

Speciality—Bred from pen averaging over 400 Eggs in 2 years. From 18/- each.

A few Pullets all ages from 12/6.

Recorded Breeding Hens.



**POULTRY - KEEPERS**, one and all, far and near acknowledge and respect the supremacy of

## CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

### Consistent Success

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

**WHITE LEGHORNS, WHITE WYANDOTTES.**

PRICE  
LIST  
UPON  
REQUEST.

*Satisfaction  
Guaranteed.*

**EDWARD CAM,**  
THE GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

**TOM BARRON'S**  
Catforth Poultry Farm, nr. Preston

*HIS  
WHITE WYANDOTTES  
and WHITE LEGHORNS  
are unbeatable as layers of  
large eggs, and plenty of them.*

*Send 11d. stamp for Catalogue and list of  
Prices. Fully illustrated, it is worth having.*

### WHO SERVES BEST.

*Please mention "EGGS" when  
replying to Advertisements.*

**"An Egg in Every Ounce."**

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

**Price 18/- per cwt.  
Half-Lot 10/-**

*Special price for 5 cwt. lots.*

*Carriage Paid in England*

**ROSSLYN & Co.,**  
30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# SONIMOR

(WHITE LEGHORN)

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

LOOK OUT for OUR  
1923 PRICE LIST!!

BOOK your ORDERS for HATCHING  
EGGS and DAY-OLD CHICKS in  
GOOD TIME (Saves future worry).

Only a Few Specially Selected  
Cockerels from 6/- left.

Phone:— 6 Chaddleworth.      Grams:— "Sonimore, Leckhamstead."

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

## EGG FARM

LECKHAMPESTEAD, NEWBURY, BERKS.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, November 1st. 1922

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 8d. per annum; 6s. 4d. for six months 3s. 8d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Poultryman, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Poultryman, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. **Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

### MARKING OF FOREIGN EGGS.

However pleasing the prospect of a General Election may be to the community as a whole, to those who are interested in the question of the Marking of Foreign Eggs it will be anything but a cause of satisfaction. It was hoped that during next month the Merchandise Marks Bill would have been considered by Parliament, and the Parliamentary Committee of the National Poultry Council had secured the insertion of a clause asking for provision for the Marking of Foreign Eggs in the Bill.

Every possible step had been taken by the Parliamentary Committee, and it was confidently hoped that the Bill would have secured the assent of Parliament. What will become of it now it is idle to speculate—equally idle to waste time in lamentations. The National Poultry Council must strive by other means to attain its object. That their efforts will not be relaxed our readers may rest assured, but it is extremely disappointing to be on the verge of success, and then find our hopes dashed to the ground.

Now, if we may refer to Mr. Jacomb's letter, which appears in another part of this issue, where he speaks of the "sentimental tosh" about unfair competition. Judging from the tenor of his letter we gather that it is the whole question of the competitive system which he wishes to raise, but with that for the moment we are not concerned. Competition may be fair or unfair. Where there is misrepresentation, it is unfair, and that is the grievance in the case of the foreign egg. An inferior article is dumped in this country, mixed with the superior home product, and sold as the home product, with the result that the consumer is defrauded, and the market of the home producer is depressed. One can scarcely dignify this by the name of Competition, for it is not a question of

selling on a competitive basis. We readily agree that the competitive system inevitably works to one end—the approximation of prices to values, but if a penny article is mixed with threepenny ones, and that admixture is so large as to be in excess of demand, and so force the price of the whole to twopence—that is not an approximation of prices to values, for it has depreciated the price of the one and enhanced the price of the other beyond its value, so that the consumer suffers, the producer of the better article suffers, and the producer of the inferior article gets a 100 per cent. more than its value. That is as it appears to us, but we make no pretensions to be an authority on economics.

We cannot follow Mr. Jacomb when he says "that to talk of foreign competition is beside the point. If there were no foreign competition things would be the same in the long run. Granted if there were no foreign eggs there would be room for more Britons to languish in the hopeless misery of producing 'slow-priced eggs,' but there would be just as much to grouse at—and more to do it."

Grousers there will always be—it is a national characteristic, but we see no reason why the Britisher should languish in the hopeless misery of producing low-priced eggs. The millions of pounds which now go abroad for foreign eggs would remain in the country, which must go to the advantage of the Britisher. Those who languish in "hopeless misery" would be the incapable or inefficient, and that applies to every trade. There is little fear that the home produce will ever exceed the demand. The industry is not asking for the exclusion of the foreign egg, it is asking that it shall be sold for what it is. Surely that would be a case of the approximation of prices to values. It is not so when it is sold as "English new laid."

We cannot follow Mr. Jacomb when he says it is futile to attempt to effect any permanent improvement of those whose lot in life it is to produce poultry commodities. Nor do we understand why he should speak of the fallacy of "two blades of grass where one grew before." Economical production is fundamental to the prosperity of any industry, and if two blades of grass can be produced more economically than one, it must be to the advantage of the producer. If he produces economically, he can sell at an economic price. If prices are so high as to be uneconomic, it may result in a temporary prosperity. It can never be permanent.

If Mr. Jacomb will excuse our saying so, the weakness of his whole argument appears to be in his remark that "anyone making a discovery which enables him to produce his commodity cheaper than others, has an advantage, so long as he keeps that knowledge to himself. The advantage vanishes in proportion as others practice the improved method." That may be true regarding the individual, but it is not true as applied to an industry, for, as we said before, cheap produc-



tion so long as it is economical, is fundamental to the prosperity of an industry.

We cannot see that "the elimination of disease and the increased fecundity of the hen result in no economic advantage to the producer or consumer." Of the first it is hardly necessary to speak. Of the second it is hardly necessary to remind Mr. Jacomb that the increased fecundity of the hen made Commercial Poultry Farming possible. If our breeders had not paid attention to increased fecundity there would have been no poultry industry at the present time, and the old question, "Do Poultry Pay?" would have still been asked.

Mr. Jacomb criticises our statement that the "fall in the price of eggs was due to some extent to the fall in the relative value of other commodities." Shall we put it in this way? That the price of eggs has fallen in proportion to the price of other commodities. Then, again, he thinks our reference to the general trade depression as a cause of low prices "is not much more convincing," but if he were to visit the great industrial districts he would find that there is a great deal of truth in our contention, that trade depression has tended to lower prices. However cheap an article may be, poverty may drive a man to buy one where in more prosperous days he would have bought two. Here it is a case of demand and supply. General trade depression undoubtedly did affect the sale of our produce when prices were high, and did much to cause the slump in prices in the spring and to prolong it.

But as we say we make no pretensions to be an authority on economic. Perhaps some of our readers who are better versed in the subject, will reply to the points raised in Mr. Jacomb's letter. Meantime we shall be pleased to accept his offer to deal with the future of the industry in a further letter—as a student of economics.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### THE GENERAL MEETING.

When I left the Meeting, Mr. Edward Brown said to me: "That's the finest Annual General Meeting I have ever attended"; that is a big compliment coming from one with Mr. Brown's long experience. But, indeed, it was a fine meeting, of course things are going well with us; we had nothing but one long story of sustained progress to tell our members. The Secretary's report was gratifying, the Treasurer's statement was so lucid, and the financial position both as regards S.P.B.A. and "Eggs" was so sound that everybody was pleased. Mr. Mudie-Draper received many congratulations, and he well deserved them. Then the "Eggs" Committee report was such a favourable one, that Mr. Kitson might well say, "he felt great pleasure in presenting it."

The announcement that the Council had decided to vote £100 to the N.P.I. Fund was most cordially received, and Mr. Brownson, who, as Treasurer of

the Fund, returned thanks, spoke in the most flattering terms of the work of the S.P.B.A., and the enterprise and generosity of its members.

Mr. Edward Brown and Mr. Percy A. Francis were very heartily welcomed as Hon. Life Members of the Association, and their election as such was most popular as was demonstrated by the cordial reception accorded them. Both had some very kind things to say of the S.P.B.A.

### CAPT. HESELTINE'S RESOLUTION.

Capt. Heseltine's resolution is an important one, as he very truly said, "Science does not stand still," and there has been a great advance in the science of genetics since the rules were first drafted by the late Mr. Oscar Smart. They were wisely and carefully drafted by one who did more to encourage the scientific breeding of poultry than anyone else in the country, and whose knowledge of the subject was deeper than any writer of his time. They have served us well, and to my mind very little revision is needed, but that is only my personal opinion; at any rate, we must proceed with very great care. Fundamentally they are sound and we must bear this in mind when we proceed to revise. We must be quite sure of our own knowledge before we start revising.

### FOODSTUFFS.

The samples of foods on our stand proved of the greatest interest; it was rather amusing to hear some of the remarks made. The Sussex Ground Oats attracted a lot of attention, and evidently some of our visitors had never handled a sample of the pure article before. One man, turning to his friend, said "Why these feel like satin, ours are not like these. I wonder what we are buying." I expect they are buying a poor sample of feed oatmeal and paying a stiff price for it. There were many requests to see a good laying meal, and as Col. Hardy had thoughtfully provided a sample of one of my formulas we were able to show it. This brings me to a sample which I have had sent me this morning from Atherton where my correspondent tells me it is being "boosted" at 22s. per cwt. A more filthy mixture it has never been my luck to see; it was full of hulls and husk and dirt. I am sorry for the unlucky person who buys it at any price. It was nothing but floor sweepings, and a very dirty floor too.

### OUR "PICTURES."

The illustrations of types of layers and non-layers, good, and bad heads, etc., which we had on the stand aroused the greatest interest. One gentleman remarked, "This is a live society, I have learnt more here than at all the other places put together. I am going right in to join." And he did. Now those illustrations had more educational value than any utility show, and the Council at their next meeting will consider the possibility of having them reproduced for the benefit of members.

### EXCHEQUER LEGHORNS.

A meeting of the Exchequer Leghorn Breeders was held at the Dairy Show on the 18th, and it was decided to immediately bring into being the



**Exchequer Leghorn Club.** Mr. Robert Miller and Mr. Hodgson were elected Hon. Presidents and Vice-admiral Cayley, President; Mr. Craven Sykes, Treasurer, and Mr. D. G. Bloom, Secretary. A strong committee of 20 members were elected, it being felt that a large committee would show the democratic nature of the Club. It was decided to sue an appeal to all Exchequer Breeders and fanciers to ask them to join up and to point out that special arrangements were being made for the men who kept a few Exchequers in a back yard. The membership fee of 5s. per annum will entitle a member to various advantages now being arranged.

The standard has been agreed upon, and will be announced in full at an early date. D. G. Bloom, Hon. Sec., 51, Tavistock Crescent, W.11.

I can't quite make out why it was felt that a large committee would show the democratic nature of the Club; surely it was possible to show that without electing 20 members on it. I have had some experience of committees and would prefer one of four to one of 20 if I wanted to get the work done.

#### BRITISH BARNEVELDER CLUB.

The first meeting of the British Barnevelder Club was held on Wednesday, the 18th of October, at the Dairy Show, and was largely attended.

The President, Mrs. J. M. Walker, extended a very hearty welcome to the members, and announced that at that date the club had a membership of 63, and it was hoped to reach the hundred mark by the end of the year.

The principal discussion before the meeting was the question of the adoption of a Standard type.

Mr. Powell Owen (Club Judge) gave his views, and, pending the receipt of a few minor details from Holland, it was decided to leave the drawing up of a Standard in the hands of the Committee, who will submit their draft for adoption at the next general meeting, which will be held at the Westminster N.U.P.S. Show the first week in December. The President asked all members to support the classes for Barnevelders, at the forthcoming shows, in order to give the public opportunities of seeing this splendid new breed.

#### THE LONDON AND DISTRICT POULTRY ASSOCIATION.

The next monthly meeting is to be held at Brondesbury Hall, Brondesbury, N.W., on November 1st, at 7.30 p.m. Table show of eggs is to be held for members, in which four classes are provided, two classes for white, hen and pullet, two classes for brown, hen and pullet, three eggs to each entry. Certificate of merit to be given to winners of the first three best plates in each class. All eggs to be sold, and the amount to be sent to the National Poultry Institute Fund. A box will be provided for any spare eggs that members can give so as to swell the amount of cash for the fund, which is urgently needed.

#### REMOVAL.

Mr. Leslie Williams asks me to notify his fellow-members and readers of "Eggs" that he is removing from his present address at Easton Grantham, and has taken a farm in Hampshire.

#### CORRESPONDENCE.

I have been so much from home of late attending Conferences and Shows and various meetings, that I am seriously behind with my correspondence. Will members kindly have a little patience. I am answering all the most urgent letters with all speed, and will deal with the rest as rapidly as I can.

#### BRISTOL, BATH AND DISTRICT BRANCH.

The Branch held their first Bath meeting on October 15th, Mr. L. G. Price, County Instructor in Poultry Keeping for Gloucestershire, being the lecturer. The attendance could at the most only be described as fair, and would have been exceedingly poor had not a number of Bristol members turned up.

Mr. Price took as his subject, "Selection by the Handling System," and with the aid of some excellent specimens, pointed out the outward appearance of a good layer, and demonstrated how she should handle.

The lecture was of great interest, and the practical demonstration given should be both beneficial and instructive to those who attended.

It is hoped that Mr. Price will visit the branch again at an early future date, and that he will be better supported than on his first visit.

The branch will meet again at 7 p.m. on November 16th at the University and Literary Club, Berkeley Square, Bristol, where all future Bristol meetings will be held.

The Committee have had under consideration the question of forming an Egg Collecting Depot for the district, and it has been decided to place the question before the next General Meeting, when a scheme of operation will also be put forward. It will, therefore, be appreciated that the attendance of all big producers at the meeting is particularly desired.

### Correspondence.

#### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—The causes and effects are many and various; but, first of all, what is the present position?

I am an egg farmer on a large scale of pre-war standing, and I know personally several others with stocks of over 1,000 hens. I know from personal experience that 10s. nett profit per bird was nothing abnormal before the war, but in my own mind I do not think anyone will touch that figure this year; but

it is worse than that because the present cost of feeding, and, therefore rearing is about 70 per cent. up, and plant, etc., is considerably more. This means that profit on our capital outlay is less than half what it was before the war, and yet our personal living is very considerably more, so that the poor wretches who were advised to go in for poultry farming for a living find it difficult or impossible to exist. Yet, in spite of this you still find people stating that they make handsome profits, and I believe they *think* they do. This, of course, applies almost wholly to the novices who rushed in during the last few years with small capital and smaller knowledge; the impression was hens laid eggs, and the owner simply threw down a bit of corn, and sold the eggs at two or three times the value of the corn, so, of course, there was 100 per cent. to 200 per cent. profit!

It is useless to look for profit till eggs have paid for the food twice over, and there are cases where 2½ times would show no profit.

If readers care to turn back over pages of "Eggs," they will see that American research shows that the cost of production of both eggs and table poultry is 2½ times the cost of food, and this, I believe, is an approximate average in this country also. Can we do it at present? Some will and many will not.

Now as to the causes and remedies:—

I am not one of those who think England is over-run with hens, but part of the trouble is bad marketing of eggs by beginners. These people frequently swamp a small town with eggs that are not required, and consequently get a low price, which in time tells on other towns. Then there is the foreign egg. We are referred to the efficiency of the foreigner in being able to send eggs to England, but let us examine the matter. In my opinion this influx is due solely to the rate of exchange, which means roughly that when we get 3s. per dozen, the foreigner gets 6s. or more. It seems a sound proposition to tax these eggs up to normal rate of exchange. We should not hear then so much of the foreigner's efficiency to the detriment of our own. We know, of course, that many English farms are shockingly managed, but there are others that could teach the foreigner a great deal. In many ways the enforced marking of foreign eggs is the most important remedy to unfair trade. This would effectually prevent the sale of these as English New Laid, whether mixed or by themselves. This is far more widely practised than is generally supposed, and gives English eggs a bad name. I have myself been approached by importers enquiring for English, and offering imported eggs. This can only suggest one thing, and who can say how many poultry farmers would follow the suggestion. Competition is the finest thing in the world, but it must be fair and honest. For many weeks I saw a number of imported cases, apparently with original packing, and eggs in front of a shop, and I saw these eggs placed in a show box marked "English New Laid." At other shop they are described as New Laid; unfortunately it is impossible to prove these eggs are imported. These eggs were sold at 3d. below English, consequently other shops were compelled to reduce prices, and, therefore, pay the producers less. The obvious remedy is to insist on each imported egg being stamped.

Such stamping may or may not increase the price of eggs. I think probably it gives us 2d. or 3d. a dozen, and that means a living wages to a good many producers in this country.

Then there is the cost of production. Now those of us who have got this down to the lowest limit have no fear of the future; the same thing is happening now as in 1914, when the mistaken poultry people got a great scare, and sold out, some at once, and others when food soared to £30 and £50 per ton. I know many people think we made piles of money during the War, but so far as I am concerned my profits were very much reduced till 1919, when we picked up our bad years, and perhaps a bit over; but I think we deserve it, for the risks were very great with over 2,000 birds to feed, and the bottom of the food bins continually coming into sight, but nothing in sight to buy. It is obviously impossible to teach a man to manage a poultry farm on paper, but many men spend too much in one direction, and less than they should in others. Take stock birds, for instance. It is of utmost importance to get the best. Breeding pens are sold by all sorts of people, some honest and some otherwise, and prices may vary from perhaps 5s. to £5 per bird. If I required a pen I could trust my man; the latter price would not deter me in the least, for I should get my money back many times over.

Then comes the question of food. I fear we have no remedy against the actual cost of food, but where many have gone wrong is in taking a property mile from any mills or station, and consequently pay anything from 10 per cent. to 33 per cent. of food value in cartage. My own food, corn and mash combined costs at present about £11 per ton in bins, and it is all of best quality. Yet, nevertheless, many are paying 20s. to 25s. per cwt., and hoping to get a living—it is impossible.

Last, but by no means least, is the egg production. Many, no doubt, experimented with six or eight hens, and possibly averaged 250 eggs in the first twelve months, and now with their hundreds cannot approach that figure. A large flock should average as pulled 170 or over, and if they don't you must find the reason.

Again, there is the railway charge to consider, which must be reduced. It costs me about 20 per cent. of price received in rail charges on live birds for table, and I am expected to pay 43s. carriage per ton for shells which costs 50s.

To sum up. I have done my little best during the last few years to prevent men from investing their well-earned war bonuses in timber at 60s. per square and more and all things in proportion. What now? The 60s. timber can be bought for about 20s., or, say, one-third; hence if a man put up a plant costing £1000 it is now worth only £333, less natural depreciation. This, of course, is no reason why a man should sell up, but it is a serious matter.

It should be borne in mind that poultry-keeping is not the simple thing most men believe. We are all very ignorant of the subject, and to get on at all we must use our brains. It is all labourer's work, but put a labourer in charge, and you will be sold up in a very short time. Brains and hands, use them freely, get a move on. What about that Institute? All important

ates have one, and they are of the greatest service, and now to think it takes the Poultry Industry all these months to raise less than £4,000. Personally, I think it disgusting; poor as we may be, we ought to have raised the full amount in a couple of weeks daily.

Don't forget the National Poultry Council, and, remember, they deal with such matters as I have raised; but they cannot do anything without money.  
"PRODUCER."

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—The gleam of intelligence introduced by your correspondent, "A.C.C.S.," into the discussion on the "Marking of Foreign Eggs," encourages me to air my views upon this subject, and upon the larger subject of the "Present Position," of which the Foreign Egg question is only a part.

If you will excuse me saying so, your own honest endeavour of September 13th only scratches the surface of what appears to many to be a problem. Your statement that foreign competition is only one factor in the low price of eggs is perfectly correct, but there is something mysterious in your reference to the "fall in the relative value of other commodities." Relative to what?

If you mean that other commodities which might be used as substitutes for eggs have become relatively cheaper than eggs, and are therefore being used as substitutes, then I think you would find it difficult to establish the truth of the contention. What commodities which could be used in place of eggs have fallen during the last two or three years so much as eggs themselves?

In a like manner your reference to the influence of "the general trade depression" is not much more convincing. If poverty has driven people to the cheapest foods, then what food was cheaper than eggs when prices were lowest? No propaganda was needed to convince even the most ignorant of the food value of eggs, etc., 1s. 0½d. per lb.

Although you assert that foreign competition is only a secondary factor in low prices, strangely enough you appear to think it the only factor worth handling seriously. As a matter of fact, foreign competition is by no means a secondary factor; on the other hand, it is only a part of the general competition, neither better nor worse than home competition. It is **Competition** of the very vitals of the competitive system under which we live. And competition, wherever it comes from, inevitably works to one end—the approximation of prices to values.

The sentimental tosh about "unfair" competition is on a par with the slobber about "dirty Eastern Bazaars" and the inuendoes anent cholera germs and leprosy. These are the whinnings of those who hang on to the competitive system, but do not like its buffeting. Serious men have no use for such drivel.

The poultry keeping industry is in a very peculiar position. In almost all other industries the gradual increase in the cost of necessary equipment has forbidden men of small means or none even hoping to attain any other position than that of wage workers. To yearning souls who long for freedom from other people's domination, or who aspire to a return to the "natural" life, poultry appears to offer an opportunity. The fillip of high prices during abnormal times has induced many to embark in the line; while at the same time the circumstance that many thousands have found themselves in possession of a little hoard has provided an army of would-be poultry farmers. The inexorable result is to be found in our flooded markets.

Facts are often enough brutal things, but they have got to be faced. This invasion of erstwhile hopeful ones has played its part in the reduction of the price of eggs; this very reduction will provide the antidote by freezing out those who cannot produce at the price.

This state of affairs is permanent to the industry as to all other industries. A greater margin of profit attracts others (it matters little whether native or foreign); this increase in the number of producers results in an increase in the supply relative to the demand and a consequent reduction of price and of profit. The result is the freezing out of those least able to stand against the worsened conditions. That is the circle. There is no remedy under the competitive system.

Now to talk of foreign competition is beside the point. If there were no foreign competition things would work out to the same end in the long run. Granted that if there were no foreign eggs there would be room for more Britons to languish in the hopeless misery of producing "low-priced eggs," but there would be just as much to grouse at—and more to do it.

While I am an admirer of "Eggs," and respect the motives of those who are engaged in the dissemination of knowledge through its columns, I feel constrained to point out that it is futile to effect any permanent improvement in the position of those whose lot in life is to produce poultry commodities. There is no greater fallacy than the adage concerning he who should make "two blades of grass grow where one grew before." Whatever "revolutionary" discoveries may be made regarding the production of eggs and chicken, when those discoveries become common knowledge and common practice they simply have the effect of lowering the value, and hence in the long run the price of those commodities. If this assertion is true it indicates the futility even of the projected "institute"—which, of course, is a rascally statement!

Anyone making a discovery which enables him to produce his commodity cheaper than others, has an advantage so long as he keeps that knowledge to himself. The advantage vanishes in proportion as others practice the improved method. This applies just as surely to foreign as to native production. The research work of American and other Institutions abroad soon becomes known in England; the same thing would apply to the research work of an

English Poultry Institute, and so in the long run it is futile as a defence against foreign competition.

The future of the poultry industry is quite clear to the student of economics, and I should be glad to deal with that in a further letter if permitted.

A. E. JACOMB.

Forest Poultry Farm,  
Collier Row,  
Essex.

P.S.—I must not be understood to advocate secrecy. I merely point out the result of increased knowledge, and regret as keenly as any man that the disinterested efforts of our teachers should have no better effect. But if the elimination of disease and the increased fecundity of hens, result in no economic advantage to either producer or consumer it is folly to hide the fact.

#### UTILITY SHOWS.

To the Editor of "Eggs."

Dear Mr. Newman,—I was very pleased to see your outspoken remarks on the above subject in your Editorial of October 25th. I was talking the other day to a breeder of Exhibition White Wyandottes, and he was telling me what a lot of prizes he had been carrying off with these birds in utility classes. This is, of course, is now becoming fairly common. The bird that so often does not win is the one that has put up a really high record. Then the correct type varies so much, according to the predilections of the judges, that it is necessary to know beforehand which of the latter the bird is likely to encounter. As for the long breastbone favoured by some, can anyone conceive anything more likely to prove prejudicial to high fecundity, by limiting the expansibility of the abdomen. The true support of the latter is not bone, but muscular tissue, well developed and of high tonicity, and the way to get this is to give plenty of exercise, by providing sufficient litter, and to attend to all the other points which promote good health in live stock generally—good housing, correct feeding and cleanliness. Utility shows, as you suggest, should be local, and for instructional purposes. Breeders of birds which have done well in laying competitions, might be willing to exhibit them by way of advertisement. To my mind, the chief interest in these shows lies not so much in the birds, as in the various labour-saving devices, foods, and so on; also the opportunity they provide of meeting other poultry-keepers, and exchanging ideas and experiences. On these lines, and with the aid of lectures and demonstrations they should prove of real benefit. The enormous increase in the membership of the S.P.B.A. of late, is very gratifying, and shows that there is a real demand among the poultry-keeping for a society which devotes itself whole-heartedly to the development of the industry on scientific lines, and does not allow itself to be diverted from its object by passing whims and fancies.

F. W. HARDY (Lieut.-Colonel).

Ealing

#### DIPHTHERITIC ROUP.

To the Editor of "Eggs."

Dear Mr. Newman,—A few months ago I was called upon to deal with a severe attack of Diphtheritic Roup, and as the treatment used was effective perhaps an account of it will prove of interest and value to your readers.

Infection in this instance was introduced to the flock by means of a number of empty crates which had been sent from a wholesale market for the purpose of despatching surplus cockerels for killing; two of these crates had been left in the run until required. After about a week the pullets in this pen began to move about listlessly and to look mopey generally. Then the attendant picked up a dead pullet in the house, later the same day four others were found dead in the pen. I was called in to advise on the matter, and on examining the dead birds I found the cause of death to be in each case Avian diphtheria. The remaining 60 pullets were caught and their throats carefully scrutinised, and every one of them showed symptoms of diphtheria, some were very bad, others exhibited faint signs only. I made a number of swabs and soaked them in a preparation called Chlorinda, and swabbed the throats of the affected birds. The following night I found that all trace of false membrane had disappeared from the throats of the mild cases, and very little was to be found in the severe ones; these latter I swabbed again after which their throats were quite clear, and there was no recurrence of the growths and no further losses occurred in the flock.

Chlorinda is an extremely powerful germicide, yet it is harmless to the birds, as during treatment it was used daily in their drinking water. My attention was drawn to this preparation by a late partner of mine who was carrying out a series of tests with it on a neighbouring dairy farm. He himself had used it as a preventive of disease with his own small flock of poultry with excellent results, and when he explained its properties to me I felt sure that it would be of great assistance to poultry keepers generally, and, as will be seen from the above experience with it, it proved very effective as a local treatment in Diphtheritic Roup. I have also had an opportunity of testing its value in "Eye Roup," using a one in four solution and injecting it into the eyes of affected birds.

All practical poultry men know how difficult it is to remove the cheesy matter which collects in this troublesome disease, the knife having to be resorted to in most cases, but Chlorinda has a saponising effect on this cheesy substance, with the result that one is able to get it away without resorting to the dangerous expedient of cutting. I have been so favourably impressed by the many uses of this powerful and harmless germicide on the poultry plant that I have suggested to the manufacturers that they should bring it to the notice of poultry keepers generally by advertising it in "Eggs" and other poultry publications, and I am now informed that this will be done at once. I may add that I have no interest in this preparation either financial or in any other way, and my sole object in writing to you is to bring

the notice of poultry keepers that which I believe will prove a great help in combating a disease which has ruined many a beginner and which is a menace to successful poultry farming.

Yours faithfully,  
H. BROOKSBANK.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor, Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

A. M. B. (Okehampton). You should be able to obtain a good sample of Sussex Ground Oats at 18s. per cwt.; we exhibited one at the Dairy Show which cost but 16s., the value of S.G.O. lies principally in its being so finely ground. If you can grind them fine enough there is no reason why you should not use your own oats; a good sample of black oats would answer as well as white. (2) Wheat Meal, owing to the amount of starch it contains and the fact that you are already using Bran and Middlings in the mash, is not a very satisfactory meal for poultry, it would be far better to use it as a grain; if you wish to use it in the mash let it replace the Maize Meal. (3) You can use Barley Meal in place of Maize Meal if you class Barley Meal, Wheat Meal, Maize Meal and Ground Oats in the same category, that is as energy foods and use them in the same proportion you will not go wrong. You could use them alternately, thus Maize Meal and Ground Oats, or Wheat Meal and Barley Meal, but I should always prefer the first two. (4) It does not matter whether you use Black or White Oats in a corn mixture provided they are of good quality. (5) Yes, the cabbage would be a very good thing to hang up for the birds.

Airedale (Wales). The sample of Clover Meal at 15s. is the better value, it has a fair percentage of leaf, the other is Alfalfa Meal. The oil content of

the sample of Fish Meal at 17s. 6d. is rather high, and on the whole I think you would be better advised to pay the higher price.

M. K. (Milverton). Yes, it would be advisable to lime the piece of ground, and I would not allow the hens on it until the lime was well washed in. (2) No, it is necessary to put in salt with the mixture you are using. (3) Yes, your mash is alright, but when you get the S.G.O. they should replace one part of the Maize Meal not the Bran. (4) If your Sussex are in full lay I should add 1 lb. S.G.O. and 1 of Maize Meal to the mash you are feeding them on. (5) I could not advise this as a general remedy. (6) I should think this hen was tubercular; if you wish to satisfy yourself on this point, you could send that portion of the intestine to Miss Knight.

J. R. (Nantwich). Of the two samples of Fish Meal I prefer that at 18s. 6d., it has an excellent analysis. I do not like the sample at 20s., said to be impregnated with Cod Liver Oil. Thanks for recommending "Eggs" to your friends.

A. L. G. (Falkirk). Thanks for your appreciation of "Eggs." I rather doubt the advisability of your breeding from these pullets in March as your object is to build up a strain, and as these 15 birds have already laid 380 eggs it is highly probable that this season the chicks bred from them would be lacking in vitality; we must recognise that the egg of a pullet which has laid heavily must be deficient of some of the essential elements which build up a strong chick. If my object were to start a strain, I would not breed from these pullets next season, as the first essential is stamina, and chicks bred from heavy laying pullets are often lacking in this.

I. O. (Cefn). You have no need to worry about the pullets which laid in August, they are probably going through a partial moult, and when they have grown their new feathers they will soon come into lay again; the comb has shrivelled up because the ovaries are not active. (2) As to your surprise at what I said about the spice, well it includes the other two that you mention; spices don't nourish the body, they are only irritants, and if used for any length of time are injurious. No capable poultry keeper ever needs to use spice, the only ingredient of any value in them is iron, and if you think your birds need a tonic give them sulphate of iron, on which this much advertised spice relies. Dissolve 2 ozs. of powdered sulphate of iron in a quart of water and give one tablespoonful to each pint of drinking water, continue this for a fortnight. You must not substitute Linseed Meal for Alfalfa in the mash; if you do not wish to use the latter, replace it with Bran.

Surrey (Addlestone). (1) No, you must not allow fowls to drink raw blood from water troughs, the best way to use it would be to stir some middlings in it until it is all absorbed, then bake them in the oven and mix 15 per cent. in the mash. (2) Yes, your March-hatched Reds should be laying now if



they have been properly managed. I expect the seven birds which laid in August are moulting; the best plan will be to reduce the bulk of your mash by omitting one part Bran. (3) There is no infallible way of telling the egg of a pullet. (4) It would depend on the price you paid for your six weeks' old pullets whether you could make a profit from the sale of your eggs or not; if you could get a good first cross at a reasonable price you should be able to do so. (5) I am afraid there is little you can do for the hen which is being bullied by the others; remove her from the pen for a time, feed her well and replace her at night. (6) No, I do not approve of the Spice, it is nothing but an irritant. See reply to I. O. above.

C. E. C. (Hallow). The mating should be Brown Leghorn cockerel and Light Sussex hens, the pullets will be golden or buff colour and the cockerels silver.

S. O. S. (Hertford). You do not say which dry mash you are going to use, but there is no necessity to vary it for either intensive, semi-intensive or free range birds, except that in the case of the first, it would be advisable to use Alfalfa Meal in the mash, while it would not be necessary with the others except in the dead of winter. (2) I am afraid I can't help you much in the mixing of ton lots, we always do ours on the floor of the barn, continually turning it over until it is well mixed. I am glad you think the Editorial in the Dairy Show issue will be useful to you.

A. G. (Birmingham). Thanks for your appreciation of "Eggs." Palm Kernel Meal is hardly a substitute for Sussex Ground Oats, it has a feeding value about equivalent to a good sample of Middlings, that is in the crushed and not the chemically extracted, which has comparatively little nutrient value.

E. F. (Walton-on-Thames). I think the best book you could get would be "Poultry Keeping," by C. A. Flatt (Methuen), and "The Inheritance of Fecundity," by Oscar Smart. (2) You should start trap-nesting directly the hens start laying if you want their individual records. (3) I cannot answer your last question unless you give me details of your birds.

P. W. (Dereham). As you have house scraps consisting largely of bread, potatoes and cabbage, you will not need bran, maize germ and Sussex ground oats; your cabbage should be 25 per cent. of your mash, your potatoes and bread 15 per cent. each, add meat or fish meal 15, and dry the whole off to a crumbly condition with your supers. If you have rice puddings, etc., you must class those as potatoes or bread.

Novice (Tunstall). Your mash is hardly a balanced one, and the birds are likely to get in an overfat condition; it is a very expensive one too. Try the following: 1 lb. Alfalfa Meal, 1 Bran, 1 Sussex Ground Oats, 1 Maize Gluten Feed, 1 Fish or Meat Meal, 4 Sharps. You can use this as a wet or dry

mash. (2) It would hardly be wise to breed from the pullets next season; they will not be mature enough for that. You can substitute Biscuit Meal for Ground Oats in above mash if you wish to get variety.

Ex-Service (Aldridge). The following is a good forcing mash: 6 lbs. Middlings, 2 lbs. Bran, 3 Maize Meal, 3 Sussex Ground Oats, 1 Alfalfa Meal, 2 Maize Gluten Feed, 4 Fish or Meat Meal. You must cut down the grain feed to the minimum, so that the birds should be forced to consume as much mash as possible.

A. Y. (Clayton Bridge). The sample of glass feed is a good one, but the price is higher than it should be. Yes, we have a wonderful increase in membership.

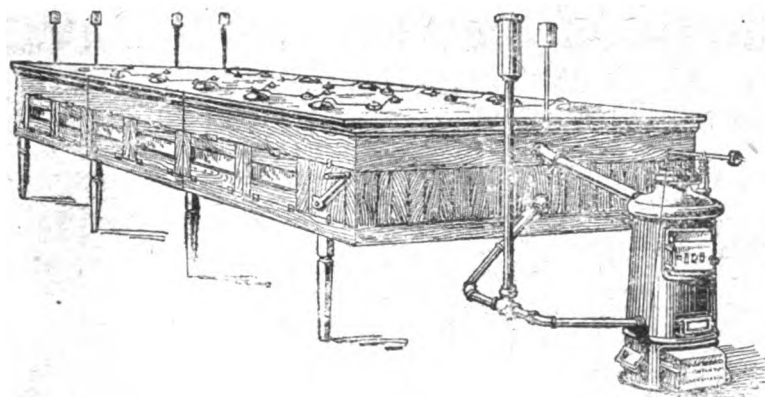
P. H. J. (Ulster). I am receiving an increasing number of complaints as to the tendency of the progeny highly-fecund stock to crooked breast bones. This is no doubt due to the elimination of lime being greater than the intake, and it is to the stock birds that we must pay attention rather than to the progeny; as there is a deficiency of lime in your soil you must compensate for it in some way, and in the preparation to which you allude is rich in mineral salts, I think it would be advisable to give it. I should also use Fish Meal impregnated with Cod Liver Oil in preference to the ordinary Fish Meal. I am very doubtful as to the advisability of your using these pullets as stock birds another season. It seems to me quite possible that they will transmit this characteristic. Can you not select some sound hens with records of 180 to 210 to breed from? (2) However vigorous this hen may be I should strongly advise you not to mate her to her full brother; you have this weakness in your strain, and it is most essential that you should avoid close mating; indeed, I think it is time you considered the advisability of introducing new blood. The mating has been used successfully. I have done it myself, but you need the exceptional individual, and there must be no weakness in the strain.

F. M. (-X). Yes, from two dozen hens you ought to be able to sell enough egg to keep them after you have retained two dozen weekly for your household use if your stock is good enough, and it is poor stuff if it isn't. You had far better confine yourself to one breed, preferably the Rhode Island Red; the Black Wyandotte is a comparatively poor layer. The White is a better layer than the Black, good layers are not so prone to broodiness as the poor ones. If you kept a dozen of the latter you would not be so likely to get broodies at the time you want them as with the Blacks. The Light Sussex would possibly serve your purpose better.

C. H. S. (Halifax). Your mash will be alright if you reduce the Bran to one part and increase the Thirds to four parts.

C. G. (Churchill). Red Mite is very seldom found on the body of the fowl during the day, as a rule

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.



If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 1d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.

If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the Incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.



### Vitamin Poultry Food

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

### Better Birds —more Eggs

THIS preparation contains the important B. Vitamin so essential for the health of Birds. Birds having too little B Vitamin often go off their legs. Cerema M. helps to prevent this. Egg-laying is improved by addition of this vitamin to the food. Those who feed dry mash may give Cerema M. as a drink (1½ oz. to 1 quart water) to the Birds in the morning. Those who feed wet mash may incorporate a rather stronger solution in the mixture. Birds will take it eagerly. It increases their resistance to disease and assists digestion.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

# Do you know the Value of COD LIVER OIL

*It is More Potent in Vitamine "A" than Fresh Butter.*

## Note: OUR FOODS CONTAIN COD LIVER OIL.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ...	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ...	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ...	17 6
Alfalfa Meal ...	22 0	Kibbled Maize (Screened) ...	14 6
Green Clover Meal ...	18 6	Rearall 1st Chick Feed ...	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ...	21 0	Thryvon 2nd Chick Feed ...	22 0
Meat Meal (65 per cent. Alb. and Fat.) ...	23 0	Matua Chicken Mixture ...	20 0
Chick Rearing Meal (Special), impregnated with 1½ per cent. Cod Liver Oil (no milk required) ...	20 0	Yeast ...	19 0
	Carriage Paid.		Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

Please note we have secured the services of  
**Mr. BRUCE WILCOCK, A.P.F.D.,**  
 as our Poultry Expert. Should you be in  
 any difficulty we will be pleased to assist you.  
 Our information bureau is free to all.

# E. DIXON & SONS, ST. ALBANS, HERTS.

### NOTE NEW PRICES.

### GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.	s. d.
Dried Skimmed Milk ...	24 0	0
Sussex Ground Oats ...	18 0	0
Maize Meal ...	11 0	0
Maize Gluten Feed ...	12 0	0
Pea Meal ...	16 0	0
Bean Meal ...	16 0	0
Meat Meal (Fine Ground) ...	22 6	0
Fish Meal (Best White) ...	23 6	0
Biscuit Meal (Fine) ...	22 6	0
Clover Meal ...	18 0	0
Broad Bran ...	12 0	0
Middlings (Best Fine White) ...	14 0	0
Middlings (English) ...	12 0	0
Feed Wheat (Best English) ...	14 0	0
Feed Oats (Best English) ...	15 0	0
Kibbled Maize (Sifted) ...	12 0	0
Flint Grit ...	5 0	0
Limestone Grit ...	5 0	0
Oyster Shell ...	8 0	0
Cockle Shell ...	6 0	0
Roiled Wheat (for Chicks) ...	15 0	0
Dried Yeast ...	20 0	0
Pinhead Oatmeal ...	26 0	0
Whole Oat Groats ...	26 0	0
Broken Rice ...	16 0	0
"No. 1 Chick Feed ...	22 0	0
Mash for Laying Hens ...	16 0	0

(Both the latter are Mr. Tom Newman's Recipes)

FREE ON RAIL, HEATHFIELD or LONDON.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
 Britannia Mills,  
 HEATHFIELD, SUSSEX.

### CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt.	s. d.
CHAMPION MIXTURE ...	20 0	0
A.1 MIXTURE (with or without Maize) ...	18 0	0
X.B. MIXTURE ...	17 0	0
X. MIXTURE ...	16 0	0
CLIPPED OATS ...	18 0	0
OLD WHEAT ...	18 0	0
WHEAT ...	16 0	0
CHAMPION KIBBLED MAIZE ...	18 0	0
CHAMPION LAYING MEAL ...	21 0	0
CHAMPION DRY MASH ...	21 0	0

Carriage Paid, England and Wales,  
 Scotland 2/- per cwt. extra.

NO DUST. NO WASTE. Mixed and Well  
 Cleaned by Special Machinery.

For other Specialities see Price Lists.

Samples and Price Lists free on  
 application to

**WILLIAM BRINKLER & SONS, Ltd.**  
 Pigeon and Poultry Food Dept.,  
 (5) GLAPHAM GRANARIES, LONDON, S.W.4  
 Telephone: BATTERSEA 211.

### REDUCED PRICES

### CLARK'S PURE SUSSEX GROUND OATS

#### GUARANTEED.

Manufactured in an old-established  
 Sussex Mill by original Millstone  
 process.

	s. d.
7lb. Bags ...	2 8
12lb. Bags ...	3 8
28lb. Bags ...	7 4
56lb. Bags ...	11 8

#### PRICES PER CWT.

	s. d.
1 cwt. ...	25
3 cwt. ...	24 8
6 cwt. ...	23 8

Carriage Paid nearest Station to  
 England and Wales.

Bags included. Cash with order or  
 Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
 56, HIGH STREET,  
 LEWES, SUSSEX.

November 1st, 1922.

EGGS

**CANNOT KEEP A GOOD MAN DOWN AS THE WHALE FOUND OUT THAT SWALLOWED JONAH.**

## STOCK of 1,200 PIONEER HOVERS

CAN BE SEEN AT MY WORKS AT THE PRESENT TIME. ORDERS FOR LARGE NUMBERS ARE ROLLING IN FAST. I HAVE MADE ARRANGEMENTS.  
**MAKE AT LEAST 5,000 OF THESE WONDERFUL MACHINES**  
 FOR THE COMING SEASON.

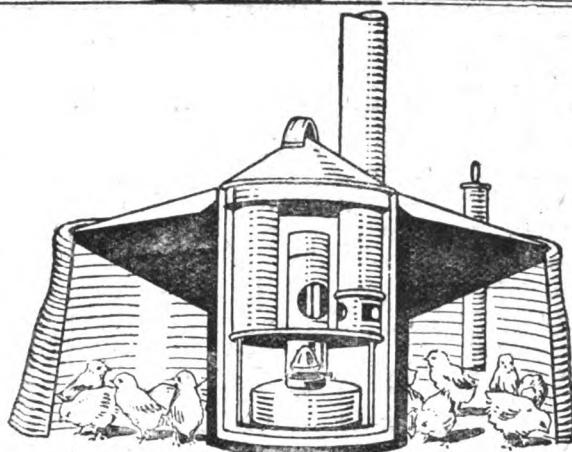
## THE "PIONEER" SANITARY HOVER

### THE SCIENTIFIC

struction of this Hover is so simple that child can work it, and understand it.

will be observed from the many illusions of so-called Cheap Hovers advertised that one appears to be as good as her.

is only when the poor victimised purchaser finds himself landed with a little camp worth about 1/3, that will neither go up nor down, that he realised his mistake. The PIONEER HOVER is also made at my own works by very skilled hands and there is nothing left undone to make them as a standard article the best on the market.



INTERIOR OF HOVER SHOWING CHICKS.

This Hover at the Dairy Show was pronounced by all Users to be

### UNBEATABLE

and Numerous Repeat Orders were booked.

100 to 150 Chick Size, £2 10s. 0d.  
 3 to 6 at £2 9s. 0d. each.  
 7 upwards at £2 8s. 0d. each.  
 50 to 75 Chicks, £2 4s. 0d.

All Carriage Paid. See below.

### BEST ENGLISH RINGS.

These are NOT the Cheap Imported but English Made.



LARGE STOCKS HELD.

### SPIRALS IN TEN COLOURS.

Green, Light Blue, Violet, Dark Blue, Yellow, Pink, Brown, Black, White. T BANDS. in 10 plain colours, 5 strips aluminium, any Number and Year.

#### ALL ONE PRICE.

	500	400	300	150	100	50	25
Olds	9/-	7/2	1/3	2/10	1/10	1/2	7/8
Months	12/5	9/11	7/5	3/10	2/8	1/7	1/1
Grown	13/6	10/10	8/7	4/6	3/2	1/10	1/3
t Breed	22/6	18/-	13/3	7/5	5/9	2/9	1/7
ries	23/5	18/11	14/10	7/11	5/10	2/11	1/10

Subject to 5 per cent. Discount.  
 An Extra 5 per cent. to M.S.P.B.A.  
 Post Free.



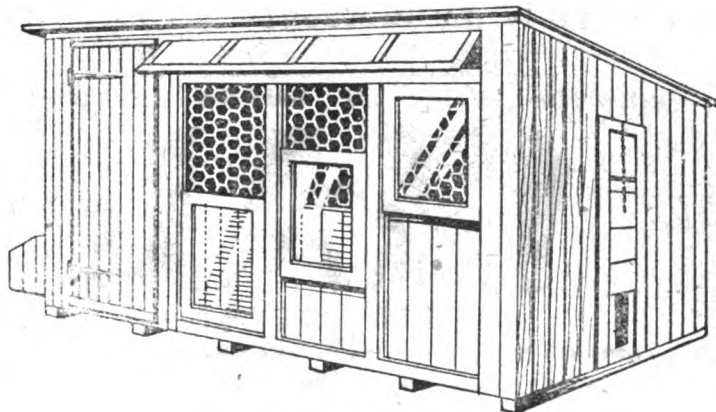
FULL LIST POST FREE.

### The "FAVOURITE" LAYING HOUSE.

The most favourite House ever introduced to the poultry world. The door can be either put in end or front, as illustrated. The prices include nest boxes, felted roof, penetrating, floor and sleepers, dropping board and perches, glass shutters and glass hood. Please note the glass shutters are the size as shown. Some illustrations are misleading. The sizes are guaranteed.

Size.	Long.	Wide.	High.	Price	Size	Long.	Wide.	High.	Price
1	6ft.	4ft.	5ft.	£7 5 0	5	9ft.	6ft.	6ft.	£12 7 6
2	6ft.	5ft.	5ft.	£8 15 6	6	10ft.	6ft.	6ft.	£13 7 6
3	7ft.	5ft.	5ft.	£9 15 6	7	12ft.	6ft.	6ft.	£13 19 0
4	8ft.	5ft.	5ft.	£10 13 0					

All Carriage Paid.



### THE "FAVOURITE" HOUSE.

Can be seen on my own farm at any time in use. It is, without doubt, the most ideal house for a breeding pen, more especially in the winter and early spring. There is hardly a dark corner in the house, which is most important.

WHOEVER MAKES A PURCHASE FROM ME WILL BE AMPLY REPAID IN VALUE. I SERVE ALL MY CLIENTS ALIKE.

GIVE ME A TRIAL ORDER, AND YOU WILL NOT REGRET IT.

SPECIAL OFFER OF FINE BISCUIT MEAL AS USED BY MYSELF, 22/- per cwt., carriage paid.

MY 1923 LIST IS NOW BEING SENT OUT, AND WHICH CONTAINS MANY CUT PRICES.  
 All Carriage Paid. 5 Per Cent. extra to Channel Islands, Isle of Man, and beyond Firth of Forth.

**A. SYDENHAM HANNAFORD, M.S.P.B.A.,**

**HAMWORTHY JUNCTION, DORSET, ENGLAND.**

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 56% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### 1922 PULLETS.

White Leghorns, hatched April, from A1 stock, Cam-Dorracott strain. Only a very limited number for disposal.

Approval against Cash or Deposit.

18s. Each. Carriage Paid.

Crates to be Returned.

MARKHAM, SONS & ALLOTT, S.P.B.A.  
QUENIBOROUGH, near LEICESTER.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
**"HEALTHY POULTRY."**

Supplied on Application **FREE OF CHARGE** by the Manufacturers of

FLUID **IZAL** POWDER  
DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.



Sequence," who laid 171 eggs in 171 days, and 240 eggs in 44 weeks.

Also two White Runner drakes, toe-punched, hatched March, 1922, from heavy layers, sire's dam 216 white eggs.

Major Hall offers a Seymour Shaw White Runner drake, April hatched, from a pen which averaged 110 eggs in 120, and are still laying well.

Mr. G. K. Pinder offers one sitting of eggs from his pen of Khaki-Campbell ducks, which finished ninth in the Bentley Test, laying 1,026 eggs, or an average of 205.2 in 10 months.

Carried forward	...	...	...	£961	1	1
					s.	d.
H. Ford (discount)	...	...	...	...	3	8
J. A. Matthews (discount)	...	...	...	...	1	6
"Assistant"	...	...	...	...	2	0
R. Smith	...	...	...	...	2	6
H. Grossman	...	...	...	...	50	0
"Anon"	...	...	...	...	10	0
B. Pearson	...	...	...	...	2	6
A. H. Stebbings	...	...	...	...	5	0
E. H. Guy (discount)	...	...	...	...	1	6
J. Whiteley (discount)	...	...	...	...	1	6
Ian M. Hay	...	...	...	...	5	0
E. Foxcroft (discount)	...	...	...	...	21	3
A. Wilson	...	...	...	...	5	0
Miss A. M. Oakes	...	...	...	...	2	6
C. E. Taylor	...	...	...	...	5	0
Bournemouth Branch (2nd donation)	...	...	...	...	62	0
H. E. B. (discount)	...	...	...	...	5	7
London and District Poultry Association	...	...	...	...	22	6
Total	...	...	...	£971	10	1

## Correspondence.

To the Editor of "Eggs."

23rd October, 1922.

Dear Sir,—The following account may be of interest to readers of an ailment sometimes found among fowls, the symptoms of which might easily lead one to think at first that the birds were either suffering from Roup or were in the first stages of Dyptheric Roup.

I cannot remember having seen the symptoms of this particular complaint described other than in connection with Roup and Dyptheric Roup, and yet the complaint I am convinced is not uncommon.

The symptoms are as follows:—Cheesy yellow growths under the tongue, on the sides of the mouth and throat. The bird shows no signs of mucoous discharge at nostrils or eyes, and there is no swelling of the lymphatic glands about the face or in the angle of the jaw, and there is no foetid odour from the breath; the bird shows no symptoms of distress

and eats pretty well and in most instances continues to lay; and I did not have one case where the symptoms developed beyond the ulcerated mouth.

In my case I at once got a doctor friend who is a pathologist at one of the large hospitals to examine one of these growths, and after a bacteriological examination he informed me that there were no signs of Avian Dyptheritis, and he diagnosed the complaint as being due to acute indigestion and what in human beings would be termed Stomatitis, a derangement of the digestive organs, not to be confused with a Scrofulous or Rousy condition of the system in birds which is also due to a derangement of the nutrition system and which makes itself manifest by the same symptoms as described coupled with several others besides.

In seeking for the cause of the trouble, I had not far to seek as it happened last summer, in August, when greenstuff was almost unobtainable, and the birds were eating large quantities of dry grass and an examination of their excreta showed that little, if any, of this was digested, but passed out in wadges. I had already had one or two cases of crop binding and acute constipation, and this grass apparently was the cause of the trouble, for after burning all the grass down and treating birds in the following manner the growths disappeared:—

**Treatment.**—Mouth and throat swabbed out with neat Milton, and all drinking water disinfected with 1 teaspoonful of Milton per quart of water; to prevent introduction of any other microbes per the infected areas in the mouth. In the food 1 teaspoonful of Flowers of Sulphur and one ounce of Charcoal per 12 birds was added, and on alternate days half ounce of Sulphate of Iron per 50 birds was dissolved in the water used for mixing the mash, this replaced the Sulphur and Charcoal. This treatment was continued for one month.

At Tottenham Show this year I met a Capt. Collins, of Dale Egg Farm, who told me that he had experienced exactly the same symptoms in his birds when they had been put into a new meadow containing long rank grass, and Mr. Hooley had diagnosed the trouble as being due to the birds eating this, and had advised almost exactly the same treatment, but with the addition of a handful of Salt in the mash per 20 birds, and Capt. Collins had also Miltonised the water, but I don't think he used Sulphate of Iron in the mash, but he too had been successful in curing the birds.

The same treatment as mentioned above is most effective in cases of Roup or Dyptheric Roup, but in these two diseases it is advisable to isolate the cases as soon as possible if practicable, if not then increase the strength of the disinfectant to 1 teaspoonful of Milton per pint of water and in case use Sulphate of Iron in the mash.

"Pen's" article on Spongia Cure for Roup is most interesting; he mentioned it to me at the Dairy Show, and when I got home I looked up Spongia in several books on the Pharmacopoeia, but failed to find it mentioned; however, in a very old one published in 1785 I discovered it, and it mentioned that "this is an old remedy, now superseded by the use of Bronin and Iodine, obtained from other sources, than

burnt sponge." It also mentioned that, "Spongea was at one time regarded as being a cure for persons suffering from Roup." Probably Croup and Roup were at one time regarded as being due to the same cause, for I think "Pem" mentions that it was a cure for "Croup."

Evidently the curative value of Spongea depends upon the Iodine and Bromine, and I don't doubt that the same results could be obtained by using solutions of these chemicals in the drinking water in place of "Spongea" if used in small quantities, but as many persons cannot be trusted to give discriminative doses of medicines, but think stronger the dose the better; it might be advisable to let them administer the Bromine and Iodine in the form of Spongea tablets.

C. S. ROSCOE.

Highlands,  
Chalfont, St. Peters,  
Bucks.

#### MOISTURE AND INCUBATION.

To the Editor of "Eggs."

Dear Sir,—I would like to ask through "Eggs" Mr. Timpany and others, who have gone pretty thoroughly into the moisture problem in incubation, for advice on the following points:—

It is proposed to govern the moisture factor by regulating the humidity of the atmosphere in the incubator room, and not in each individual machine, using a wet and dry bulb hygrometer. What should the wet bulb read at, say, each 5 or 10 degrees Fahr, from 40 degrees F. to 70 degrees F., in order that the air when heated up to 103 degrees F. may have a relative humidity of about 50 degrees.

In conjunction with this is might also be possible to weigh the eggs, not *individually*, but in *bulk*, in order to arrive at an *average* loss of between 11 per cent. and 13.5 per cent. in the first 18 days. The above remarks apply to hot-air machines with restricted ventilation.

Yours faithfully,

HARRY ELLISON.

#### RECORDS.

To the Editor of "Eggs."

Dear Sir,—I was very interested in the percentage production chart which appeared in "Eggs" a fortnight ago, and the subsequent explanation given by Mr. Fox. A great many poultry keepers do not realise the importance of accurate records, or even of keeping accurate accounts, and I think any suggestions on these points are helpful. Mr. Fox's chart gives a simple and quick method of working out percentage production of any number of pens from which the production curve can subsequently be plotted. Graphs can tell us a number of useful things at a glance, such as the relative production of different varieties and breeds, of hens to pullets, the effects of weather conditions on production, and the relation of production to the price of eggs.

Whilst on the question of records I should like to add a contribution to the controversy on the question of replacements, that is the proportion of stock which

should be replaced annually by pullets. It is commonly believed that because a pullet lays more eggs than the yearling hen, especially in the winter months, and because the value of these extra eggs is more than the extra cost of rearing a pullet in feed and labour over its eventual marketable value as an old hen, therefore, it must follow that it pays to rear as many pullets as possible, only keeping a minimum of yearlings for breeding purposes.

I believe this to be an entirely erroneous method of arriving at the cost of raising a pullets, and claim that the real cost in labour alone is the equivalent of the profit which would be obtained from the older bird, which the pullet replaces.

This requires some explanation. Supposing for sake of argument that the poultry-keeper finds his hands full in looking after 800 head of layers, and is raising 400 pullets annually, then it must follow that if he is to raise 600 pullets (i.e., 75 per cent. replacements) he must reduce his laying stock in order to give them proper attention. By experience I find that it takes every bit as much time to incubate, rear and bring up 200 growing pullets, as it does to look after 200 layers. Therefore, he must either reduce his laying stock, or employ labour. In the latter case labour is not to be assessed in wages, but on the profits arising from its employment, which brings me back to my original argument that the cost of raising a pullet is the equivalent of the profit of the hen it replaces, plus the extra cost of feeding, etc., over and above that pullet's dead market value.

Arguing on these lines, I think it is a very doubtful commercial proposition at present to replace more than 50 per cent. of one's stock.

Yours truly,

A. H. CAPPER.

The Laurels, Padworth, near Reading.

18th October, 1922.

#### EGG PRICES.

To the Editor of "Eggs."

Sir,—When on my annual visit to the Dairy Show I was surprised to see one of the multiple provision shops offering "new-laid" eggs for sale at 2s. 9d. per dozen. The next day I saw eggs sold in Newbury market at prices ranging from 3s. 2d. to 3s. 5d. per dozen. How is it possible to sell new-laid eggs in London at 5d. to 8d. per dozen less than country market prices? Of course, it cannot be done.

Surely no further example is needed of the present unfair competition to be met from foreign eggs. There is only one practical remedy—the compulsory marking of foreign eggs.

Yours truly,

F. C. ATKINS.

#### DRY AND WET MASH.

To the Editor of "Eggs."

Dear Sir,—Considering the way he did it, I don't wonder that Lt.-Col. Hardy left off giving moist cooked mash.

First ask your scrap collector to sweep the carpets, or clean bottles, with the tea leaves, or let the pigs or rabbits have them. To burn the bacon rind. It is too salt for pigs or fowls. Next, if put on early the pan or boiler is sure to boil up some time in the morning. When this happens the most dis-obliging cook (to get rid of the smell) will be more than pleased to bundle the boiler (oval tin) into it's home-made hay box. It can then, after two or three hours shut up, be mixed any time that day, and will be quite hot and vegetables soft.

No healthy bird will need more than 10 minutes to eat all that is good for it (unless, of course, the mash is powder dry, or sticky, neither of which it should be). A good feeder (human) soon knows how much to peel down, so that the trough when empty only needs standing up or turning upside down. Properly mixed mash leaves troughs which need neither scraping nor scrubbing. Metal troughs are best. No harm ever comes of fish bones. They are quite soft when boiled. Boil potatoes separately.

Moist or cooked mash has two great advantages which Lt.-Col. Hardy does not mention.

It is very much enjoyed by the birds, and it enables one to give fowls many excellent vegetables which they would not eat raw. Such as celery leaves and outer stalks, tough leek leaves, carrot and parsnip leaves, etc., peel through the clover cutter before boiling. There is no need to spoil good cabbage and roots by boiling. Some people mention as a disadvantage of cooked mash that fowls shiver and mope after it. I think this is only when it is given warm, and when the birds are allowed to gorge for 20 minutes.

I mix overnight and prefer to give the mash in the morning, and by observation and measure rather than by time limit.

If too much mash is mixed it can be given next day. There is very little weather in this country which would make it unwholesome in one day, and slight sourness does no harm.

The surplus liquor goes on from day to day, and being boiled every day never goes bad.

It should not be left more than six hours in the hay box, and the boiler should stand open in a cool place between whites. If there were enough "cooked mashers" surviving I would describe my fireless cooker. I am sure we all thank Lt.-Col. Hardy for his carefully thought out mashers and notes on mixing Dry Mash.

Yours truly,

E. I. PRIDEAUX.

Flitwick.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, NOVEMBER 3rd, 1922.

**GRAIN AND FEEDING STUFFS.**—British wheat is in good supply and firm in value, although the recent steady advance in prices is less apparent this week. Milling samples now average 45s. 6d. per quarter, or 8d. more than last week. A brisker trade is now passing in malting barley, and the finest samples make up to 65s. per quarter in London, while oats have again advanced, blacks and greys, at an average of 29s. 3d.

per quarter, showing a rise of 1s. 9d. per week.

Imported wheat is scarce and prices are inclined to advance, but imported barley is in quiet request at easier rates. Imported oats are in short supply on spot and demand is fair, although values have an easier tendency.

British bran is in request and dearer, and middlings maintain their price.

Maize.—There is a small decline in the price of maize.

**MILLERS' OFFALS.**—Bran (British): Bristol, £7 2s.; Hull, £6 17s.; Liverpool, £6 12s.; London, £6 10s. Broad Bran: Hull, £8 7s.; London, £7 10s. Fine Middlings (Imported): London, £9 7s. Coarse Middlings (British): Bristol, £9 5s.; Hull, £8 12s.; Liverpool, £8 10s.; London, £8 12s. Pollards (Imported): Bristol, £7 10s.; London, £7 5s. Rice Bran: Bristol, £7 15s.; Liverpool, £7 10s. **MEAL.**—Barley Meal: Bristol, £10 15s.; Hull, £10 15s.; London, £11. Maize Meal: Bristol, £10 10s.; Hull, £11; Liverpool, £10 15s.; London, £10 10s. Maize Germ Meal: Bristol, £10 15s.; Hull, £10; London, £10 10s. Maize Gluten Feed: London, £9 10s.

### EGGS AND DEAD POULTRY.

Eggs are less plentiful and sell at higher figures, especially the higher grades. Week-end prices per 120: English New Laid, 30s., 33s.; Irish, 26s., 28s.; Dutch All Brown, 27s.; Danish, 18lb., 27s. 28s.

### EGGS.

Per Doz.—Ashford: First, 3s. 10d.; Second, 3s. 6d. Birmingham: First, 3s. 6d.; Second, £3s. 0d. Carlisle: First, 4s. 0d. Chelmsford: First, 3s. 11d.; Second, 3s. 10d. Denbigh: First, 3s. 10d.; Second, 3s. 8d. Derby: First, 3s. 9d. Dorchester: First, 4s. 4d. Exeter: First, 3s. 6d. Hereford: First, 3s. 6d. Hull: First, 2s. 9d. Ipswich: First, 3s. 6d.; Second, 3s. 0d. King's Lynn: First, 3s. 0d.; Second, 2s. 9d. Lincoln: First, 3s. 3d. Llandilo: First, 3s. 9d.; Second, 3s. 6d. Newport (Mon.): First, 3s. 3d. Norwich: First, 3s. 0d. Oswestry: First, 4s. 0d. Penzance: First, 2s. 9d.; Second, 2s. 8d. Salisbury: First, 3s. 11d.; Second, 3s. 10d. Shrewsbury: First, 4s. 3d.; Second, 4s. 0d. Skipton: First, 3s. 0d. Taunton: First, 3s. 3d. Truro: First, 3s. 0d. York: First, 3s. 6d.; Second, 3s. 3d.

### FOWLS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 10d. Derby: First, \*4s. 0d.; Second, \*2s. 3d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Ipswich: First, \*6s. 6d.; Second, \*4s. 6d. Lincoln: First, \*5s. 6d.; Second, \*3s. 6d. Llandilo: First, 1s. 7d.; Second, 1s. 1d. Newport (Mon.): First, 1s. 6d.; Second, 1s. 2d. Norwich: First, \*7s. 0d.; Second, \*5s. 0d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 3d. York: First, \*5s. 0d.; Second, \*4s. 0d.

### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, \*5s. 0d.; Second, \*4s. 0d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Llandilo: First, 1s. 7d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 5d. Norwich: First, \*7s. 6d.; Second, \*6s. 0d. Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First, \*6s. 6d.; Second, \*5s. 0d.

\* Per Head.

## SECOND GREAT NATIONAL SHOW AT LEICESTER.

To our contemporary, "Poultry News," we offer our warmest congratulations on the success of the Second Great National Show of Poultry, Pigeons, and Rabbits at Leicester. Thanks to their enterprise, and the excellent organisation, the show was a great success, and bids fair to rank in the future as one of the great events of the Poultry Year.

We know no hall in the country, which is so well adapted for the purpose as the Junior Drill Hall, in which the show was held, although there were upwards of 5,000 entries, everyone was in a good light, a fact which added considerably to the comfort and pleasure of visitors.

In charge of the S.P.B.A. stand were Colonel Hardy, Mr. E. J. Meekings, Mr. Lester Spurgeon, Mr. F. W. Watt, and the Secretary. A large number of members in the district came up and made our acquaintance, and we enrolled many new ones, most of whom were introduced by those who have already benefitted by their membership.

There was a large display of appliances at the different stands, and we were particularly impressed with the great variety and type of houses, some of which showed great improvement and originality in design.

Turning to the Poultry, one can only say they were of a very high standard.

Black Wyandottes are more popular in the Midlands than in the South or North, and the Club Show was well supported.

Australorps did not impress us. We note the judge's comments on the lack of size in some of the entries, and with this we entirely agree, but surely it would have been better to have withheld cards from entries described, as "white in lobe," squirrel tailed, crooked breast, too small, and "Leghorny," even if they were only H. C. The judge frequently draws attention to the short breast bone. In the cockerel class, three of the first four have this defect? Is this characteristic of the imported Australorp? Some "handlers" favour the "long," and some the "short" breast-bone. Here we have the extremists again, and the probability is that neither are right. Would it not be better to agree that the breast-bone should be proportionate to the length of back, and thus end what seems to be a useless controversy.

Langshans were a good class, especially the Croads, and we were pleased to see this fine old breed so well supported.

The Minorca Club Show drew a big class, and it is pleasing to note that the Club, for the first time, had utility classes, although these were not well supported. The fact that the Club has recognised the Utility breeders is encouraging.

Sussex were, as usual, a fine show. The Reds seem to be becoming more popular; the entry was good, and the quality excellent. Lights were a good lot, and the winning pullet a beauty. Speckleds made a nice class.

Orpingtons numbered 61, but we were sorry to see the classes for Whites cancelled.

Blue Leghorns make no headway, but Browns and Blacks were a first-class lot, and the revival of interest in these two varieties is very pleasing.

Anconas comprised both single and rose-combs, but the breed does not seem to be gaining in public favour to the extent that it seemed probable three or four years ago.

Campines attracted a big entry, both Gold and Silver. Rose-combs are evidently making headway.

## NOTICE TO ADVERTISERS.

We cannot guarantee the insertion of any Advertisement unless the copy for same is received on the Friday previous to the issue.

## ASPERGILLOSIS.

By Miss KNIGHT, M.B.

This is a disease of the lungs and air sacs, due to infection with fungi. There is a characteristic mouldy appearance on the lungs and thickening of the walls of the air sacs.

**Causation.**—This is most often a fungus called *Aspergillus Fumigatus*, but sometimes reputed fungi have been found. These are found on vegetable matter which has become damp. When birds scratch among mouldy grain or mouldy litter, they may inhale the spores (seeds) of the fungus. These settle on the lining membrane of the bronchi or air sacs.

All kinds of birds are susceptible to this infection, both wild and domesticated. Young chicks have an acute form of the disease called Brooder Pneumonia.

**Symptoms.**—There are none until at late stage. There may be hoarseness or a rattle in the throat. Later on the bird becomes dull and inactive. It loses weight to a marked extent. Diarrhoea is usually present. There is loss of appetite. Before death there are difficult respiration, sleepiness, great weakness and emaciation. The disease is always fatal.

In baby chicks the symptoms are similar to those of B. W. D. and Coccidiosis.

**Post-Mortem Appearance.**—The lungs look mouldy. The appearance of the ordinary mould is familiar to everyone. On opening the chest, one or both lungs show this characteristic appearance. Sometimes the disease is confined to the air sacs, the walls of which are thickened, from the growth of mould on their surface, while the lungs themselves are free. In other cases it is the air sac in the bones which are affected, but, at all events, the disease begins in some part of the respiratory system, and is usually confined to it, although occasionally it may be carried by the blood stream to other organs. Sometimes nodules, similar to those of tuberculosis, are found in the lungs.

**Course of the Disease.**—In adult birds the disease is usually chronic, although death may occur in from one to eight weeks. It attacks individual birds, which are less resistant to it than others, but does not, as a rule, occur in epidemic form. But young chicks are much more susceptible, and the disease may occur in epidemic form among them. Also the disease is very acute, and death may occur in from two to seven days.

**Differential Diagnosis.**—This cannot be made during life, unless it is known that other birds from the same flock have died from the disease. On post-mortem examination, in this disease a mouldy growth is seen on the lungs and air passages, where tuberculosis chiefly affects the liver, intestines and spleen, and Coccidiosis attacks the intestines. Microscopical examination shows a distinctive cause in each case. Brooder pneumonia in young chicks resembles B.W.D. and Coccidiosis, and can be distinguished by post-mortem examination only.

(All rights reserved.)  
(To be continued next week.)

BREEDERS' SPECIALITIES.

ALEXANDER'S  
EDIGREE POULTRY.  
Wyandottes & W. Leghorns.  
Gamine—Fecundity—Type.  
DUGHTON via NORWICH.

Rev. F. KENNEN, S.P.B.A.,  
Longborough, Glos.  
White Leghorns, Special Pen. Hens from  
am's 275-280 eggs. Sire's Dam, 255 eggs in  
pullet year,  
ullets No. 50, winner of Special and 1st  
rise, Sept. 9th, 1922. Pen No. 1, headed  
Male from 250-22oz. hen (Latham). Pen  
o. 2, later hatched, but with special for-  
ward male. Orders now taken for Sittings,  
ay Olds, and Early Pullets and Cockerels.  
Prices and Records given on application.

BOSTOCK SMITH,  
Member of S.P.B.A., P.R.S., and N.U.P.S.  
Breeder of the Highest Class Pedigree  
Utility Poultry.  
HAWARDS HEATH, SUSSEX.  
"Phone—Haywards Heath, 82."  
the Leghorns. Light Sussex.  
the Wyandottes. Wendels, Black.  
the Island Reds. S.C. Black Leghorns.

F. A. HULME,  
Heathfield Commercial Egg Farm,  
HEATHFIELD, SUSSEX.  
WHITE LEGHORNS.  
Large Flock. Egg average over 180, mated  
to FRANK SNOWDEN (direct). Cockerels  
from 240-egg dams.  
Hatching Eggs, Cockerets, Breeding Hens,  
Pullets.

N. SHELLEY S.P.B.A. and  
N.U.P.S.  
Breeder of Utility Trap-nested  
RHODE ISLAND REDS  
1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

FRAMLINGHAM.  
Over 25 acres of exposed Grass Land.  
Speciality, White Wyandottes (Tom Barron)  
Only birds that have laid 200 eggs in pullet  
year and over 50 in second winter, bred  
from. Also White Leghorns (Barron's) and  
R.I.R.'s (Golden's). Eggs, 10/6; Chicks, £1  
per doz.  
White Wyandotte Cockerels, January, 1922,  
from hens with over 60 eggs in third winter  
from £1 each. White Leghorns, 15s.  
Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

ONE OF THESE SPACES  
COSTS:  
13 weeks, 8s. 6d. per insertion  
26 " 8s. 0d. " "  
52 " 4s. 6d. " "  
(Not less than 13 accepted)

WHITE WYANDOTTES.  
L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.  
Speciality:  
STAKING AND RISE OF EGGS.

G. W. MILLER,  
Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.  
WHITE LEGHORNS.  
LIGHT SUSSEX.  
A Few Pullets for Sale in each strain.  
Inspection Invited.  
MILL VIEW POULTRY FARM,  
TENTERDEN, KENT  
Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE,  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.  
White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.  
SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

Miss N. B. MADDISON,  
S.P.B.A., N.U.P.S.,  
Dane Hill, Sussex.  
RHODE ISLAND REDS.  
Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.  
Grand Early Cockerels for Sale.  
All Trap-Nested Pedigree Utility Stock.

QUAKER BROOK POULTRY FARM,  
WHITE LEGHORNS  
WHITE WYANDOTTES  
HOGHTON nr. PRESTON

MELLIN & SKURRAY,  
S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.  
Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.  
R.I.Red (s.c.). White Leghorns.  
White Wyandottes.  
Black Leghorns.

EVERY MEMBER OF THE  
S.P.B.A.  
SHOULD TAKE ONE OF  
THESE SPACES.  
SEND ALONG YOUR ORDER.

Miss ARGLES, N.U.P.S., B.C.  
White Leghorns, Miss Edwards' splendid  
Laying Strain.  
All Stock Birds Sold.  
Day-Old Chicks now being booked for  
January and February.  
Anstey Poultry Farm,  
ALTON, HANTS.

R. J. HUBBUCK,  
Member of S.P.B.A., N.U.P.S., and P.O.  
Pinchurst Poultry Farm,  
Headley, Hants.  
White Leghorns, White Wyandottes, and  
Light Sussex.  
Eggs and Day-old Chicks.  
Cockerels, Pullets and Breeding Pens.  
Enquiries Invited.

The MISSES RANSFORD,  
White Leghorn Stud Farm  
All Birds Trap-Nested.  
All Birds on Free Range.  
PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.  
Pedigree Cockerel List Now Ready.

Rev. G. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.  
Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.  
Fawn Drakes, Wilson's direct.  
10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

White Wyandottes only. TOM BARRON'S  
STRAIN.  
Dam's Guaranteed Trap-nest Records  
225 to 280 2 1/2 to 2 3/4 eggs in pullet  
year, sire's dam 286 eggs.  
February and March Cockerels  
Of exceptional stamina from above mating.  
Prices 20/- to 32/6 Carriage Paid.  
Mrs. BURGESS, S.P.B.A., N.U.P.S.,  
Woodside, Tenterden, KENT.

A MOST  
PROFITABLE INVESTMENT.  
IF IT IS ADVERTISED IN  
"EGGS"  
WHEN WRITING ANY OF THE  
ABOVE RELIABLE BREEDERS,  
PLEASE MENTION "EGGS."



## Classified Advertisements.

### PREPAID RATES.

1d. per word—Minimum charged 1s. Box Nos. 1s. extra. Bold Headlines inserted at an extra charge according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1 6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	4
6 " " "	6
9 " " "	6
13 " " "	9

## FOR SALE.

### PULLETS.

**WHITE LEGHORN** Pullets. April hatched, from Hanson's hens direct; sired by cockerel (four-guinea bird); Warwick Rogers direct; son of hen whose official record winning pen S.P.B.A. stock tests was "over six eggs weekly for eight months"; 21s. and 25s.; cockerels same price.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

**BLACK LEGHORN** Pullets, April hatched, splendid birds; some laying; free range; 15s. each.—G. Goldsmid, Brill, Bucks.

### WHITE LEGHORN PULLETS.

February and April; Dr. Baldwin's direct; fine health birds; reared on free range at 600ft.; 21s. each, carriage paid.—Capt. F. S. Pardoe, Bradley Court, Mitcheldean.

### WATLINGTON POULTRY FARM, OXON.

50 March-April hatched W. Wyandotte, 17s. 6d. each; 50 May, W. Leghorns, 15s. each; 10 April Light Sussex, 12s. each. All on the point of laying. Reduction on quantities of 20.

March hatched Padman **WHITE LEGHORN** Pullets; dams all over 240. Sire from 288 hen; 17s. 6d. each. Carriage paid.—Dr. Mortimer, S.P.B.A., Binfield, Berks.

64 W. **LEGHORN**, late April hatched; 12s. 6d. each, and 20 **LIGHT SUSSEX**, early April hatched; 15s. each; all from good pens and healthy. Carriage extra.—Major Ashby, Long Lane, Newbury.

Well-marked **LIGHT SUSSEX** Pullets, from L2 hens; now laying; 17s. 6d.; near laying, 15s. each.—Hanner, Hadlow Downs, Sussex.

## SCALE OF ADVERTISEMENT CHARGES.

**DISPLAYED ADVERTISEMENTS.**—Ordinary Page, £8 15s. 6d.; Half Page, £4 15s. 6d.; Quarter Page, £2 4s. 0d.; One Column, £2 18s. 6d. Half Column, £1 9s. 3d.; Two Columns, 14s. 6d.; 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. and other Special Position by arrangements. Discounts for series. Full scale of advertising rates on application.

ADVERTISEMENTS must reach **Mr. F. J. CHURCHYARD, 94, Farncombe Road, London, S.E.16**, by first post **FRIDAY MORNINGS**, for insertion in following issue. Advertisements received later not guaranteed insertion in the following issue. Amount of cash must accompany every advertisement. Write plainly. The Manager is his best to decipher illegible writing, but cannot be responsible for errors caused by advertisers neglecting to write plainly. A deposit system has been adopted, and advertiser asked to make full use of same. When remitting direct to Editor on deposit the amount of purchase-money should be remitted, and six penny stamps extra for cost of acknowledgment of same.

### MARGERISON DIRECT.

Typical May hatched **BLACK LEGHORN** Pullets (free range); 10s. each.—Wilcox, Ivy Cottage, Thelwall, Cheshire.

Twelve 1922 **WHITE LEGHORN** Pullets (Barron), six months; good type: from high fecund stock; 12s. 6d. each. — Bald, M.S.P.B.A., The Nest Poultry P.F., Heronsgate, Watford.

Cook's 270-Egg s.e. **RHODE ISLAND RED**, April, 1922, Pullets; 15s. 6d., carriage paid.—Simmons, M.S.P.B.A., Heathfield, Sussex.

### COCKS AND COCKERELS.

**WHITE WYANDOTTE** and **WHITE LEGHORN** Cockerels (Parson's Strain). Dams' trap-nest records from 220–290. From 15s. each. Few Pedigree Cocks, from 12s. 6d.—Simmons, Fairview Poultry Farm, Hembury Port, Honiton, Devon.

**REV. SEYMOUR SHAW**, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. **White Leghorns**, **Wyandottes**, and **Runner Ducks** (all colours). Records to 269. Approval.

**BUFF ROCK** Cockerels, bred from stock supplied by J. H. Cooper, dam's record 225–238, February and March hatched, pedigree on application; 15s. to 30s. each. — Farrar, Brookroyd, Batley, Yorks.

### FIRST AND GOLD MEDAL.

**WYANDOTTES**, Single Bird Test, Cheshire Section, 224 first grade or second grade. A few related Cockerels (from 24oz. egg eavy layers) for sale. — Captain Heseltine, Ropley.

Pure **WHITE WYANDOTTE** and **LEGHORN** Cockerels for mating; very fine birds; 10s. 6d. each, carriage paid. Very Special **RHODE ISLAND** Ditto; 15s. — Balmer, Stapleford Tawney, Romford.

### SUPERB EARLY COCKERELS.

February and March hatched **LEGHORN** (Padman and Padman) March hatched **LIGHT SUSSEX** (Tom Marks). All remarkably fine from excellent parent stock. Prices 17s. 6d. to 35s., according to pedigree particulars on request. Birds sent on approval, carriage paid.—D. and G. Northwood P.F., Blackhill, Co. Durham.

### WYANDOTTES.

**WHITE WYANDOTTE** Cockerels, hatched, from daughters of 252 and 253, by cock grandson of "Lady" (301 eggs); 12s. 6d., 15s., and 21s. — Mansell, Kingston Stort, Thame.

### CANBERRY POULTRY FARM, STOCKBRIDGE, HAMPSHIRE.

Stock Cockerels for Sale. **WHITE WYANDOTTES**, **RHODE ISLAND REDS**, **LEGHORN**s and **WHITE LEGHORN**s; 21s. each, according to breed and record. All with records from 244. Full particulars on application.

### LA BRESSE.

A few select Cockerels for Sale, bred to my winners at Yeovil, Trowbridge, and Tenham. **WHITE LA BRESSE**, 2s. 6d. each. **BLACK LA BRESSE**, 2s. 6d. each, carriage paid.—H. Lynden Lemon, M.P.O., S.P.P., The Lodge Poultry Farm, Devizes.

### TOM BARRON DIRECT.

February hatched **WHITE WYANDOTTE** Cockerels, splendid birds; good type, stamina, from L2 hen (Barron), layers eggs in 36 winter days; sired by **Black Cockerel**, son of 285 large egg hen; 30s.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

### WHITE LEGHORN

Pen average 239. Stock direct from "The Mail" Test; February and May hatched 15s. and 20s. each, carriage paid.—J. W. Man, East Court P.F., Saltfleetby, Lincoln.

November 8th, 1922.

Light SUSSEX Cockerels, hatched, strong healthy birds; reared on moorland range; Major Eden's strain; 10s. 6d. each.—Blaydes, "Gingcote," Hathersage, Derbyshire.

R. RED Cockerel, hatched March. Eggs supplied by E. C. B. Boucher; healthy birds; reared on free range; each. — Capt. F. S. Pardoe, Bradley, A. Halden.

Miss Strathmore has a few RHODE ISLAND Cockerels (Mrs. Beales) for sale; 15s. each; early April hatched. — Miss Dunlop, St. Paul's Walden, Wym.

WHITE WYANDOTTE Cockerels (Miss ne's); strong, well-developed birds; from —Dorothea Ovenden, Oakshield Poultry m, Monk's Orchard, Croydon. RHODE ISLAND RED Cockerels, April hatched; Bostock Smith's best pen direct in two guineas.—Mrs. Burnell-Wedmore, Remenham Hill, Henley-on-Thames.

### WHITE LEGHORN COCKERELS.

am's Guaranteed Trap-nest Records, 225 1 230; sire's dam 275; vigorous, April hatched birds; 15s. each.—Rev. F. Mosley, Sheffield, Scotton Moor, Knaresborough.

UFF ORPINGTON Cockerels; March: s. Goodden's Utility direct; really good; m 15s.—Bowden, S.P.B.A., 5, Chiltern rd, Hitchin.

Black Cockerels, WHITE LEGHORNS, Iron strain, from three different S.P.B.A. registered Pens; March hatched; 17s. 6d. and 21s.; early April, 15s.—R. Densham, "Roger's Wood," Fawkham, Kent.

Cockerels. Pedigree LIGHT SUSSEX, BLACK, BROWN, and WHITE LEGHORNS. DRAKES, BUFF ORPINGTONS. March and April hatched.—Particulars, Mrs. Wilson, Inceca Farm, Denholme, Bradford.

### PEDIGREE STOCK COCKERELS.

February and March hatched W. WYANDOTTES, Barron's strain; fine healthy birds; February, 21s.; March, 17s. 6d. Pedigrees on application.—Richardson and Ashm, Birley Spa Poultry Farm, Hackenborpe, Sheffield.

Pure-bred RHODE ISLAND RED Cockerels; very fine birds; good colour.—Apply, Miss Plucker, Canberra, Marsh Grove Road, Luddersfield.

Excellent Type, WHITE LEGHORN Cockerels, Cam and Roger strain; also BUFF STOCK Cockerels; Powlett strain; February and March hatched; £1 and 15s. each. — Apply, The Manageress, Thornton Hall Poultry Farm, Glasgow.

### EGGS.

Few early hatched R.I. RED Cockerels, Crowley dam, 267 eggs. Sire grandson of Boucher's 1,000-egg hen. Also W. WYANDOTTES, Barron, dam 262 eggs; sire, Cooper-Barron; from 67 winter record dam. Beautiful birds, good colour and type. Satisfaction guaranteed; 20s. each.—Goodwin, Outspan, Cheadle Hulme, Cheshire.

### DR. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 25s. each, carriage paid; November and December. — Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

### CHICKS.

### WATLINGTON POULTRY FARM, OXON.

#### DAY-OLD CHICKS.

We are now open to receive orders. W. Wyandottes, W. Leghorns, Rhode Island Reds (s.c.), W. Orpington. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £3.

### DUCKS AND DRAKES.

FAWN and WHITE RUNNER Duck 1922 Pullets (Upjohn), bred from Drakes from over 250-egg dams; price 12s. each.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

Ducks. — 1922 WHITE RUNNER Drakes, sired by son of Taylor's 301-egg duck 8/6 each. Also FAWN Ducks and Drakes; 8/6 each.—A. Mansell, Kingston Stert, Thame.

Nye and Son offer Pedigree FAWN and WHITE RUNNER Drakes, from their strain which produced world's record layers; 444 eggs in 462 days, etc.; from 7s. 6d. each. Inspection invited.—Shoreham-by-Sea.

Several 1922 WHITE RUNNER Drakes (Harrison-Bell) for disposal; 12s. 6d. each; fine birds.—Bevan, Potters Heath Poultry Farm, Welwyn, Herts.

Six KHAKI-CAMPBELL Drakerels, May hatched; direct from Oscar Brown's Stapleford pen; £1 each.—Ticehurst, M.U.D.C., Tenterden, Kent.

Ducks and Drakes.—KHAKI-CAMPBELL Drakes, April hatched, from Capt. Long's No. 1 Pen; fine, vigorous birds; moderate price, or Exchange.—Capt. F. Pardoe, Bradley Court, Mitcheldever.

Twelve Pure Bred AYLESBURY Stock Ducks, Four Drakes, unrelated from my well-known strain; April and May hatched, 15s. to 20s. each.—R. Wallbank, Stairs, Oxenhope, Keighley.

Sixteen Pure-bred AYLESBURY Ducks, hatched early June; well grown; 10s. each.—Mrs. Negus, Sherbourne, Warwick.

Pen Four FAWN RUNNERS, Drake, 1921 or 1922; Wilson strain; 35s.—Hebditch and Jones, Stoke-under-Ham.

### FIRST IN BUFF ORPINGTONS.

National Laying Test, 1,017 eggs in 44 weeks. Consecutive runs of 151 (record), 147, 108, in as many days. 1st, County Utility Cup, Winchester; 1st, Eltham; 1st and 3rd Ducks, 2nd Drakes, Tottenham. — Write for particulars, Captain Heseltine, Ropley.

Ten WHITE RUNNER Ducks, from Taylor's E.A.T. pen, 1921; price 9s. 6d. each, or £4 10s. the lot, carriage paid.—St. James's Poultry Farm, Brackley.

### RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Bevereds. Youngsters for Sale.

### APPLIANCES.

#### GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid.—Hudson, Sheet Metal Works, Patricroft, Lancs.

For Sale, Two STANWORTH-SOOLE and Two Buckeye Anthracite Brooder Stoves.—Poulton, Carleton, Poulton-le-Fylde, Lancs.

Two TAMLIN POULTRY HOUSES for Sale; one on runners; can be seen at any time.—Mrs. Burnell-Wedmore, Remenham Hill, Henley-on-Thames.

100 GLOUCESTER INCUBATOR, complete, self-turning tray, £6. Two 100 MILLER BROODERS, £6 each. Four 14-Quart NORWICH AUTOMATIC FEEDERS, 25s. each. Two 6-Quart Ditto; 15s. each.—Hosgood, Preston, near Canterbury.

### " ENOTS " SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. 1 pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the **MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

1912 FORD CAR, with box body, Binks' carburettor; in good order; lamps, etc. Suit poultry farm or market gardener. Price £50, or near offer. Two Special Two-Compartment Foster Mothers, by Hall; complete; £4 each; practically new; carriage forward. Four Thornben Silver Hen Brooders, complete; 35s. each; carriage paid. Kibbling Machine and Green Bone Cutter, by Bentall; both mounted on strong wood trestle; £6 10s., carriage paid. "Glevum" Egg Testing Lamp, for oil; 6s. 6d., post paid.—Major Ashby, Long Lane, Newbury.

## WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

Design your Own Poultry House. Estimates by return for Sectional Buildings of all descriptions. Best workmanship. Prompt attention.—Browett, Regent Street, Watford.

STANWORTH-SOOLE BROODER STOVE, complete with chimney, etc.; £7 10s. Small KIBBLING MACHINE, as new, 30s.; Two KYNOCH LANTERNS, as new, 30s. each.—Ashenden, Patricxbourne, Canterbury.

Two GLOUCESTER INCUBATORS, complete with self turning trays—150 egg, £6 15s.; 70 egg, £5 5s. Reason for selling installing a Mammoth.—Elmsfield Poultry Farm, Ottinge, near Canterbury.

## BREEDING PENS.

BLACK LEGHORNS, 1921 (Johnson's), records 196, 164, 183, 172, 166, mated to 223 eggs cockerel; £3 10s. WHITE LEGHORNS, 1921 (Johnson's), records 186, 171, 161, 180; all incomplete; £4 10s., all carriage paid.—Barwell, S.P.B.A., Withington, Glos.

## LIGHT SUSSEX.

Prize-winners. Five excellent Pullets and Cockerel, February hatched (Franklynn's), point laying. Already awarded 2nd Aylesbury, 3rd and res. Thame. 10 guineas. Carriage paid.—G. Powell, M.S.P.B.A., Finchdon, Upper Hughenden Road, High Wycombe.

## BREEDING PEN. RHODE ISLAND REDS.

40 1921 hatched RHODE ISLAND REDS (Measures' strain); sound breeding stock; 7s. 6d. each, carriage paid, on approval, or would consider offer for lot.—F. Wallis, M.S.P.B.A., Poultry Farm, Nailsea, near Bristol.

## BUFF ROCKS.

10 Hens, 1921 hatched, and unrelated Cock, a smart Breeding Pen (average record of 208 eggs); 8s. each, carriage paid. — Will Bancroft, M.S.P.B.A., Sunnybank, Oakworth, Yorks.

## FOODS.

## POULTRY CHARCOAL DIRECT FROM THE MANUFACTURERS.

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal.—J. B. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5.

## DERBYSHIRE LIMESTONE GRIT.

2s. 6d. cwt.—Thornhill, Great Longstone Derbyshire.

WHEAT, good quality, 12s. per cwt. F.O.B. Bags free. Stamp for sample. POTATOES, best King Edward, 4s. 6d. per cwt. F.O.R. Bags free.—Morris, Brook End Farm, Abberley, Worcester.

## CHARCOAL FOR POULTRY.

Fine, Medium, or Coarse. Guaranteed Quality: 22s. cwt., carriage paid; Half, 12s. Also Cedar and Peat Moss Litters, Dried Flies, Grits, Meals, etc. Special Quotations bulk quantities. Enquiries invited. Samples free.—Bygrave and Co., Amwell, Ware.

DRIED YEAST MEAL, 14s. 6d. per cwt., on rail, Ash. Best Sharp Flint Grit, 3s. 3d. cwt., on rail Ash. Cash with order only. Carriage paid; prices on application. Special offer for one week.—Ashmead Corn Stores, Ash, Surrey.

FINE SWEDES, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

## MISCELLANEOUS.

### SILVER MEDAL, NATIONAL TEST.

BLACK LEGHORNS, pedigree pullets and Stock Cockerels, from 15s. 6d.—25s. Five per cent. reduction on hatching eggs booked before January 1st.—Allday and Rawson, Shenlock Row, Berks.

If you want to know more about of ARTIFICIAL LIGHT to INCREASE PRODUCTION, send stamp to W. King Street, Stretford.

## HATCHING EGGS.

Two year old WHITE LEGHORN mated 270-egg cockerels; 6s. each, hundred; carriage paid; order January onwards. — H. Chester, Hove, Sussex.

## EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large and small birds, splendid records and standard. Birds, all with individual records, room for young stock. Cockerels of Cam's Supreme, and other pedigree stock. Table Birds, mated. Young Stock has been entirely free from any form of diarrhoea, or other disease. Casualties from all seasons under 8 per cent., including weakling incubators. — For particulars apply to Brig-General Macdonald, more, Hook, Hants.

## WHITE ORPINGTON COCK.

Write for prices and particulars of trap-nested stock.—Manager, Wotton Farm, Wotton-under-Edge.

## PEDIGREE UTILITIES STOCK COCKERELS.

WHITE LEGHORNS, WHITE WYANDOTTES, s.c. RHODE ISLAND REDS have a grand selection of Tip-Top cockerels, bred from individually recorded hens. WHITE WYANDOTTES, bred a 235-egg hen; winter record 81; sire E. Cam's College Queen (301-egg hen), each, carriage paid. RHODE ISLAND REDS, bred from a 203-egg hen; record 71; sire, Measure's 1908 cock, by son of hen that laid 148 first eggs in six winter months, and was National Gold Medal Winner; 25s. carriage paid.—1922 PULLETS for sale stock sent on full approval. Send a detailed Price List.—Lindsay Scott, Member and Fellow, N.U.P.S., The Lington Poultry Farm, Mildenhall, Norfolk.

Pedigree BLACK COCKER SPANIEL, four months old; good with try; price three guineas. WHITE NER Drakes, Harrison-Bell strain; 1922 hatched; 12s. each. LIGHT SPANIEL Cockerels, Eden-Boschild strain; 1922 hatched; 21s. to 30s. each. — Miss Helen Dunford, S.P.B.A., Bransgrove, Essex.

## ANTI-DIPHTHERIC SERUM.

Prepared by Biological Institute, Paris (ex-assistant Pasteur Institute) Cures and prevents Diphtheria, Roup, Contagious Catarrh, Diphtheritis, Canker, etc. Tested in France by myself during 10 years' farming.—Full particulars from exclusive agent, M. McLaren, M.N.U. M.S.P.B.A., 48, Handside Lane, Walsleyden City, Herts.

umber 8th, 1922.

## EGGS.

Drakes, and Pullets. **KHAKI** Drakes, Miss Harrison-Bell com 10s. 6d.; magnifloent birds; **LEGHORN** Cockerels, **WHITE** Pullets, 12s. 6d.—Full particu- Fearnside, Greenfield Poultry met Lane, Hanging Heaton. Bat- s.

## LIGHT SUSSEX SPECIALIST.

**ODGES**, Heathfield, Sussex. Oldest Strain of Sussex. Established winner of hundreds of prizes. ins: 2nd, v.h.c., Dairy, in Class 64, 2nd being claimed at £30; 3rd, 2nd, Mill Hill; 2nd Uckfield. Pullets and Hens, reasonable Utility and beauty combined. Big gs. £3 10s. Selected Pens, 12s. 6d., doz. Chicks booked. Also stocked, Red, Brown Sussex. Rear Sussex a big profit from your cockerels.

### FARM FOR SALE.

**ERCIAL EGG FARM** and Incuba- stre, midway London-Southend, 83 eehold. Half under poultry, half Three 3ft. Laying Houses, Large p, Office, several Pens, no bunga- head Pedigree Stock, including 300 (1922), large Trap-nesting House, r capacity 2,500, Big Day-old Chick; near two excellent markets. Lon- collects eggs weekly. 900ft. front- public road. Brooder capacity 500. Owner joining friend in larger se: £2,200.—Box 176, "Eggs," 94, be Street, London, S.E.16.

Lynn. Three acres grass land, in- vegetable garden and one acre of nted fruit trees; good building e to main highway. Suitable for rowing, market gardening, or poul- ping. Price, Freehold, £400.—Par- from Miss Seed, 28, Tower Street, Lynn.

## ORDINARY VALUE IN POULTRY WHEAT.

us Seed Stocks of Finest Quality Obtainable.

## WASTE, ALL PURE FOOD

Offer for Short Time only as Quantity Limited.

ice, 15/- per cwt.

Free on Rail at Dorking. Cash with Order.

**W. MASTERS, Ltd.,**

Seed Specialists,

g's Lynn. NORFOLK

**GODFREY & Co., Ltd.,**

STAMFORD,

For Up-to-Date

**USES and APPLIANCES.**

TRY US.

a throughout the County as makers of the best quality only. PRICES REASONABLE. Catalogues Free.

## PARTNERSHIP.

Advertiser, with thorough experience commercial egg farming desires working partnership where additional capital and help is required for extension.—Box 179, "Eggs," 94, Farncombe Street, S.E.16.

**ADVERTISER**, experienced, desires Work- ing Partnership in a Modern Utility Poul- try Farm; keen worker; moderate capital; must bear strict investigation.—Box 178, "Eggs," 94, Farncombe Street, London,

## PUPILS.

Vacancy for Lady or Gentleman Pupil, on Up-to-Date Poultry Farm. Beautiful healthy spot, most comfortable home. Young society.—Simmons, Hembury Fort, Honiton, Devon.

**PUPILS**.—The North Devon Poultry Farm has Vacancies for Resident Pupils. All branches taught. Prospectus on applica- tion.—The North Devon Poultry Farm, Metherell Tower, Beaworthy, N. Devon.

**EDUCATED LADY PUPIL** Required on Modern Poultry Farm; live in.—Dr. Faulk- land Rooke, Woodhouse, Brimpton, Berks.

**GENTLEMAN PUPIL** Required on Small, Up-to-Date Poultry Farm. No fee for one who is willing to assist generally. Board out.—Buddle, The Poultry Farm, Tang- mere, Chichester.

**POULTRY FARMING**.—Miss Bennie, Bal- gownie, Kingcase, Prestwick, Ayrshire, offers Thorough Training, all branches, practical and theoretical. Very moderate terms to Working Pupils.

## WANTED.

### APPLIANCES.

One or Two **HEARSON** or **PHIPPS**; hot- water; 100-egg size Incubators, for gas pre- ferred.—Foster, Brook Vale Farm, Simister Lane, Rhodes, near Middleton, Manchester.

**GLEVUM INCUBATOR**, 100-egg size, per- fect condition. — Cuttriss, West Ashby, Horncastle.

### WANTED, EGGS.

**FERTILE EGGS** Wanted, early November. Sittings of Light Sussex, about 50 dozen required. State price.—Box 175, "Eggs," 94, Farncombe Street, London, S.E.16.

## MISCELLANEOUS.

**RABBITS**.—Wanted Blue Beverene Buck, of good strain, in Exchange for Pedigree Buck; two years old.—Grant, Boath, Nairn.

## COCKERELS.

Five 1921 **WHITE LEGHORN**; Four, 1921, **RHODE ISLAND BEDS**, single combs; Three, 1921, **WHITE WYANDOTTES**, records required. Vacancy for Pupil. No premium to active person. All branches under per- sonal supervision of H. C. Cowin, F.N.U.P.S, S.P.B.A., Nelson House, Vange, Pitsea, Essex.

## SITUATIONS WANTED.

**YOUNG MAN**, educated, strong, willing, desires Situation Working Pupil, Poultry Farm; modern methods; moderate terms; three years' mixed dairy farming; used rough work; handy man.—Sutton, Water- loo, Salisbury.

## SITUATIONS VACANT.

Wanted, **YOUNG LADY**, to take charge of Pedigree Poultry; state experience and salary.—Appleton, Clawton Holeworthy, N. Devon.

## STANDFORD MILL, Bordon, HANTS

**W. J. TAYLOR, M.S.P.B.A.,**

Begs to Offer the following:—

	per cwt.	s. d.
Wheat	13	6
Oats, Clipped	13	6
Oats, English	13	0
Maize	11	6
Maize, Kibbled	12	6
Maize Gluten Feed	12	0
Poultry Mixture	13	0
Bran	9	0
Midds., English	11	6
Midds., Fancy Plate	12	0
Barley Meal	12	6
Pea Meal	15	0
Sussex Ground Oats	17	0
Meat Meal	20	0
Fish Meal	21	0

Dry Mash Mixed to Order. Prompt Delivery.

**TRAP-NESTING CARDS**, 64 x 124 inches. 1 doz., 1/3; 50, 3/9; 100, 8/6; 250, 15/.

Trap-Nesting Record Books, 6/.

Hatching Record Books, 7/6 and 11/.

Stud Books for Fowls, 8/.

Incubator Records, 1/3 doz.; 7/- per 100.

Backyarder's Complete Record, 6d.

Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKS, LEICESTER.



**BRITISH AND BEST.**

Established 1893.

Our **BEVEL ENDED SPRING-CLIP CELLU- LOID RINGS**—The best and most popular of all patterns. Ends bevelled—nothing projecting—giving a neat jointless appear- ance.

**NUMBERED CELLULOID RINGS**, 12

Colours, 12, 10d.; 36, 2s. 1d.; 72, 3s. 9d.

**CELLULOID RINGS** (without numbers), 18

Colours, 12, 9d.; 36, 1s. 9d.; 72, 3s.

**3-COIL SPIRALS**, 12 brilliant colours, 12,

9d.; 36, 1s. 9d.; 72, 3s.

**IMPROVED INTERLOCKING ALUMINIUM**

**RINGS**, numbered consecutively or year,

12, 9d.; 36, 1s. 6d.; 72, 2s. 6d.

All Rings Post Free. The Trade Supplied.

**HUGHES, 27, HAMPTON HILL, MIDDLESEX.**

We regret that owing to a printer's error in Messrs. Worsam and Abbott's advertisement in last week's issue, the price of their Illuminated Fireless Brooder was given as 12 guineas, carriage paid, instead of carriage FORWARD.

# 1922 PEDIGREE LAYING PULLETS.

On One Month's Approval.

**RHODE I. REDS**  
(Boucher's) March  
and April hatched.  
Dam's records 210  
W.I. Sire's Dam 291.

**WHITE WYANDOTTES** (Barron's).  
100-157. Sire son of  
Wilson Beattie's  
Snowball.



**WHITE LEGHORNS.** Dams 250 upwards.  
Sire's dam, Gilpin's 293-egg hen.

18/-, 21/- and 25/- each. Satisfaction  
Guaranteed.

Dept. C. **CRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES,**  
(BARRON.)

**W. LEGHORNS,**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.  
All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

## GRANULATED MOSS LITTER

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2, 5s. 9d.;  
3, 8s. 6d.; 5, 13s. 2 owt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

## TIMBER—What about it?

WE PAY CARRIAGE ON ALL ORDERS OVER £1.

COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY.

1in. x 4in. T.G.B.	7s. 6d.	1in. x 6in. Saw'n Bds.	9s. 6d.	3in. x 1in. Battens	4s. 6d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 6in. Do.	12s. 6d.	3in. x 3in. Battens	15s. 6d.
1in. x 5in. T.G.B.	9s. 6d.	1in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	7s. 6d.
1in. x 5in. T.G.B.	11s. 6d.	1in. x 2in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
1in. x 5in. T. & G.	13s. 6d.	2in. x 1in. Battens	6s. 6d.	3in. x 6in. Battens	4s. 6d.
1in. x 5in. Saw'n Bds.	6s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 5in. W'th'bds.	7s. 6d.
		2in. x 3in. Battens	12s. 6d.		

per 100 feet. CUT TO LENGTHS OR MULTIPLES. Others sizes quoted for. Special terms for large quantities. When ordering please state nearest Railway Good Station.

WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Claremont Road Saw Mill, SEAFORTH  
LIVERPOOL. Tel. 524 Waterloo.

## "MY EGGS WERE TREBLED IN ONE WEEK"

Through using your Laying Meal," so says  
a user of "PERFECT LAYING MEAL"  
(containing Biscuit Meal, Sussex Ground  
Oats, and other Good Foods—no rubbish).

22.6 cwt. 12/6 1/2-cwt. Sample, 6d.

**PERFECT FOODS, M.S.P.B.A.,**  
**HEATHFIELD, SUSSEX.**

QUALITY, PRICE, DELIVERY.	GRAM, M.
	ONT,
MAIN POINTS	
SEND FOR SAMPLES AND PRICES	
JOHN W. BEVANS & Co., Tanger M., Paris	

## SPECIAL LIME STONE GRIT, NONE GENUINE WITHOUT THIS. TRADE MARK.

Takes the place of Oyster Shell and Flint Grits  
(Reg.).

3s. 6d. per owt., 65s. per ton  
F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbreck," Greenhill Road, Allerton, Liverpool

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid



The Henman says "E. A. Pittam"

## E. LESLIE PATTISON

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND**  
**WHITE LEGHORNS.**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODS.

**STOCK COCKERELS.**

Full Pedigree supplied with every bird.

Speciality—Bred from pen averaging over 400 Eggs in 2 years. From

A few Pullets all ages from 12/6.

Recorded Breeders





# CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

## "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry. The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

## "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

## EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

OTATIONS  
D.  
RTICULARS  
EE

atisfaction  
aranteed.

THE LARGEST ONE BREED FARM ON EARTH OR AS FAR AS WE KNOW ANYWHERE ELSE

# SONIMOR

(WHITE LEGHORN)

LOOK OUT for OUR 1923 PRICE LIST!!

BOOK your ORDERS for HATCHING EGGS and DAY-OLD CHICKS in GOOD TIME (Saves future worry).

Only a Few Specially Selected Cockerels from 6/- left.

\*Phone:— 6 Chaddleworth.      Grams:— "Sonimore, Leckhamstead."

## EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

OUR POPULAR PRICE LIST AND OTHER PARTICULARS COST NOTHING

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*  
*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

*HIS WHITE WYANDOTTES and WHITE LEGHORNS are unbeatable as layers of large eggs, and plenty of them.*

*Send 11d. stamp for Catalogue and list of Prices. Fully illustrated, it is worth having.*

### WHO SERVES BEST.

*Please mention "EGGS" when replying to Advertisements.*

### "An Egg in Every Ounce."

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

*"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.*

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lot:  
Carriage Paid in England

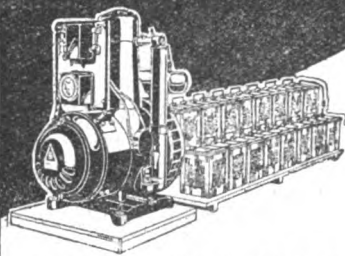
## ROSSLYN & Co.,

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

Early-hatched s.o. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Beucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood. A few Special Fawn and White Drakes from Dams which have recorded up to 380 Eggs in the year. Also a few special Mated Pairs.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

*Let Artificial Lighting in the Pen  
increase the laying power of your hens*



Get more eggs whilst the price is high. Keep the hens feeding after dark during the winter months by illuminating the pens with this economical Lighting Set. Production of eggs increased three or four times. Write for details.



JOHN RICHARDS & Co. (Electrical Engineers), Ltd., 9, High St., Burton-on-Trent.  
London Office:—75, Victoria Street, Westminster, S.W.1.

**Simplicity—Economy**  
is the key-note in  
the following list:

Newman's Laying Mash	15
Newman's Breeding Mash	15
Maize Germ Meal	11
Maize Gluten Meal	11
Maize Gluten Feed	11
Maize Meal	11
Kibbled Maize	11
Wheat	11
Clipped Oats	15
Broad Bran	9
Fine White Middlings	11
Ordinary Middlings	11
Sussex Oats	17
Limestone Grit	3
Cockle Shell	3
Peat Moss	3

Bags Free. Carriage Forward.

Also "Nitrophos" and "Bycolla" Fish Meal, Meat, Biscuit, Clover, Alfalfa Meal, etc., etc.

**FRANK SHEARN & CO., Ltd.**  
MIDSOMER NORTON, SOM.

'Phone 51.

"Poultry Foods and Feeding."

ALSO

"Chicken Rearing."

BY

**TOM NEWMAN.**

Rudgwick, Sussex.

Price 6d. Each,  
Post Free.

**Mrs. ALEC WILSON**

Offers for December Delivery

White Wyandotte Cocks  
and Cockerels, also  
Pullets (now in lay)

From her Prize-winning, Trap-  
nested Strains.

Write for Free Catalogue.

**GARTH WYANDOTTE FARM,**  
GARTH, BRECONSHIRE.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years  
ROBERT MILLER has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time.

His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.

Beautiful Art Catalogue, post free, from

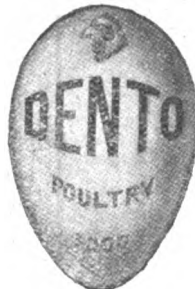
— ROBERT MILLER, —

DENNY, SCOTLAND.

**Wilson's Poultry and Duck Meal.**  
PRICE REDUCED.

£16 ton. 17s. cwt., f.o.r. Bags free. Cash with order  
Carriage Paid. Price and Sample Post Free.

**JOHN C. BANNISTER & CO., Ltd.,**  
Easingwold, YORK.



Discounts for  
Quantities, with an  
additional 5% on  
all orders received  
through the S.P.B.A.

Bags free, car. paid  
England & Wales.

Samples Free on  
Application.

	per cwt.	s. d.
MEAT MEAL (18 per cent. Oil, 46 per cent. Albuminoids, 19.5 per cent. Phosphates)	22	0
MEAT and BONE (Grade I. (11 per cent. Oil, 38 per cent. Alb., 37 per cent. Phosphates)	20	0
MEAT and BONE (Grade II.) 8.5 per cent. Oil, 36 per cent. Alb., 39.5 per cent. Phosphates)	19	0
PRESERVED GREEN BONE Finely Ground (6.5 per cent. Oil, 32 per cent. Alb., 46 per cent. Phosphates)	18	0

Sole Manufacturers:

**The DENTON MANUFACTURING CO.**  
DENTON, Near NEWHAVEN, SUSSEX.

**JOHN A. BETTS,**

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

Fertile Eggs, 7 doz., 50/-, 100.

Free Range Cockerels and Drakes, 15/-  
Hundreds sold last season.

1921 Hens, 10/-, 1922 Ancona Pullets only  
10/- each.

Breeds kept: Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Light and Speckled Sussex, R.I.R. Brd. Rks., Buff and Brd. Rks., Bl., W. and Brn. Leghorns, Buff and White Orpingtons, Aylesburys, Khaki-C's, Buff Orpingtons, and Runners (both colours).

# W. A. BAINBRIDGE

Keyneston Manor Poultry Farm,  
BLANDFORD.

White Wyandottes. Rhode Island Reds (S.c.)  
Light Sussex.

things of first-grade eggs from L2 birds, mated to  
Cockerels from large egg and high record Hens.

Only the VERY BEST supplied.

THREE-MONTHS PULLETS. Day-old Chicks. Cockerels  
from large egg, high record L2 Hens.

**SPECIAL REDUCTIONS!!**

our Prices Prior. to Stock-taking

Australian Wheat, 15s.; Best Eng-  
eat, 13s. 6d.; Red Wheat, 13s.;  
Whole Oats, 12s. 6d.; New Round  
Oats, 12s.; Soudan White Dair, 11s.; Best  
Corn, 12s.; Maize Meal, 11s.;  
Pure Sussex Ground Oats,  
Middlings, 11s.; Broad Bran,  
Complete Laying Meal, 12s. 6d.;  
Meal, 17s.; Best Meat Meal, 17s.;  
Lasco, 21s.; Sweet Clover Meal,  
Rilised Green Bone, 15s.; Flint Grit,  
Oyster Shell, 7s.

MARCH CROSS PULLETS: 7s.  
prompt Despatch. No Waiting.

THISTLEWAITE, Corn Miller,  
AVERTREE ROAD, LIVERPOOL.  
Phone: 332 Royal.

## S. & J. PARSONS,

The Poultry Farm, Musbury, Devon.

Breeders of the Highest Class Utility White  
Wyandottes and White Leghorns, and consistent  
winners in the various laying competitions.

Specialist Breeders of High Pedigree Cockerels

1922 Cockerels from 21/- to 34/- each.  
1921 Cockerels from 15/- to 30/- each.  
1922 Pullets (Early Hatched) 21/- to  
42/- each.

A few Special 1920 Hens at 9/- to  
12/6 each.

Our Book "The Secret of Egg Production," 3s.  
Further particulars on application.

# MILK FOR CHICKS.

A Newman says:—"For the young chick there is no food of equal value. There  
thing like milk to give a chick a good start in life." ("Eggs," p. 223, 19th April).  
Hardy says:—"As regards chick rearing I have found the use of Dried  
Milk very successful." ("Eggs," p. 231, 3rd May).

F. W. Watt says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

also for fattening :-

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**  
**GENUINE SUSSEX GROUND OATS 18/- per cwt.**

Write for Particulars.

PER CENT. DISCOUNT TO S.P.B.A. MEMBERS. IF ORDERED THROUGH  
ASSOCIATION.

Pay:- Cash with Order. Carriage Forward Heathfield or London.

**ARR, MACDONALD & CLEVELY, LTD.,**  
BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.  
6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.

# HIGH PEDIGREE COCKERELS

Individually Bred.

## WHITE LEGHORNS.

	Dam.	Sire's Dam.	Feb. Mar. Apl.
275 24oz. egg. Bentley Non-Such 253 in 48 weeks at 1920 National. Heaviest layer in the whole test	282 24oz. egg by 264	42/-	35/- 28/-
474 24oz. egg in two years	287 24oz. egg by 295	35/-	38/- 27/6
461 24oz. egg in two years	287 24oz. egg by 295	32/6	27/6 25/-
244 24oz. egg	282 24oz. egg by 264	36/-	26/- 15/-

Exceptionally fine specimens, combining  
HIGH FECUNDITY with STAMINA.

Few TESTED COCKS, 1921, Trap-Nested  
HENS, and 1922 PULLETS for Disposal.

I guarantee every Egg, Chick and Stock  
Bird to be laid, hatched and reared on my  
own farm, which is the leading Pedigree  
Trap-Nested Farm in North Yorks.

Satisfaction Assured.

## ROWLAND COOKE, S.P.B.A.,

KELDHOLME POULTRY FARM  
KIRBYMOORSIDE, YORKS.

# NOTE THESE PRICES!

Then compare QUALITY and  
NUTRITIVE VALUE in rela-  
tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	13/6

**MEALS**

Maize Meal (Fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	16/-
Bran	6/-
Middlings	11/-

ALSO—Maize (whole), Dair, Bar-  
ley, Oat Feed, Barley Meal, Bis-  
cuit Meal (Poultry), Service Meal  
(Fine), Cookie Shell, Flint Grit,  
Mixed Grit, Pure Oyster Shell, in  
K. and B. Sizes.

Prices on Application.

Resolve to try these ECONOMI-  
CAL QUALITY FOODS to-day.  
Order through Secretary,  
S.P.B.A., and get your discount.

The Service Food Co  
VICTORIA MILLS  
GRINSEY



### To all Members of the S.P.B.A.

and others who have not yet tested the magnificent results to be obtained from the regular use of "Bycolla" for feeding Poultry. Do not hesitate in applying at once to your dealer for a sample bag.

"Bycolla" aids the health and stamina of the birds, insuring a permanent increase in the egg output without impairing future welfare.

# BYCOLLA

REGD

BYCOLLA is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a 1d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spices, should be given.

NOTE.—Not more than 10 per cent. of Bycolla should be added to each mash to ensure best results.

The Analysis of Bycolla shows a very high proportion of Food Units, viz.: 154, as follows:—Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum

### CONVINCING TESTIMONY.

#### READ THE FOLLOWING LETTERS—

"I am glad to be able to report that the last ton lot I purchased as a trial lot, has proved very satisfactory, indeed, increasing the egg yield by about 9 per cent., and the young stock has thrived wonderfully since using it."

"I beg to inform you that the experiments I carried out with the sample cwt. of your fish meal, have given satisfactory results."

## CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL.

We guarantee the only oil added to "Bycolla" to be Pure Veterinary Cod Liver Oil.

### SPECIAL REDUCTION IN PRICE.

Terms: Cash  
with Order.

NOW **24/-** per Cwt.

Bags Free.  
Carriage Paid  
England and Wales.

Also Sold by Dealers in 7lb. Bags. Price 2s. 3d.

**BICOL LTD., HOPE STREET, GRIMSBY.**



## BUCKEYE

THE PERFECT INCUBATOR

AND BROODERS OR FOSTER MOTHERS.

### The World's Best Incubator.

Hatches a larger percentage of Eggs than any other system.

#### INCUBATORS.

Style E., No. 14, for 65 eggs, £6 15s.; No. 15, for 120 eggs, £11 10s.; No. 17, for 210 eggs, £15. Standard No. 1, for 120 eggs, £15; No. 2, for 175 eggs, £17 6s.; No. 3, for 250 eggs, £21 10s.; No. 4, 350 eggs, £27; No. 5, for 500 eggs, £42.

#### BROODERS.

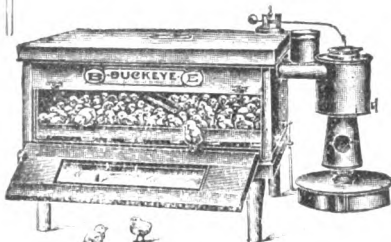
No. 20, Oil Burning, 60 chicks, £4 18s.; No. 21, 100 chicks, £6 5s.; No. 22, 150 chicks, £8; No. 27, Blue Flame Oil, 200 chicks, £6 5s.; No. 28, 350 chicks, £7 5s.; No. 29, 500 chicks, £8 5s.; No. 18, Coal Burning, 500 chicks, £7 10s.; No. 19, 1000 chicks, £9 5s.

We can also supply Mammoth Incubators for 2,440 to 10,368 Eggs.

Sole Selling Agents for the United Kingdom.

**W. B. FORDHAM & SONS, Limited,**

(Dept. D) 36-40, York Rd., King's Cross, LONDON, N 1.



CARRIAGE PAID  
to any Station in  
England or Wales,  
or any Scottish or  
Irish Port.

FULLY ILLUSTRATED  
PRICE LIST ON  
APPLICATION



as used on my:—

## Hampshire Poultry Farms,

No. 1.—Dry Mash Specially Prepared for Chicks ... 5/- 9/6 18/-

No. 2.—Dry Mash Specially Prepared for Chicks at 10 weeks ... 4/9 9/- 17/-

No. 3.—Laying Mash ... 4/6 8/6 16/-  
The above can be fed as Wet Mash if desired.

No. 4.—Chick Feed ... 6/- 11/6 22/-

No. 5.—Chick Feed at 10 weeks 5/9 11/- 21/-

No. 1 and 2 Mashies Contain Extracts of Milk which render them invaluable for Growing Chicks.

Free on Rail.

Quotations for Larger Amounts.

Telegrams:—Four Marks.

**P. V. NORWOOD, Four Marks, Hants.**



C. Holdaway,  
Holdaway,  
Holdaway,  
Holdaway.

# WHITE LEGHORN FARM, WOODMANCOTT, MICHELDEVER, HANTS.

Telegrams—  
"HOLDAWAY."  
EAST STRATTON"  
Hatching Eggs and  
Day-Birds in Season.

Can't you be in time for Hatching Eggs? Ah, yes, and book them now!  
Thousands second and third season hens are kept, and will be mated to birds whose  
they have recorded not less than 200 eggs and upwards to 250 eggs in their pullet year.

**Price 7/6 for 12. 60/- per 100.**

and Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.

Bankers: Messrs. Barclay's Bank, Ltd., Basingstoke.

**PULLETS, April Hatched, 15/- May, 12/-**

**Carriage Paid on orders over £2.**

**Deal Direct with Importers and Save in Intermediate Profits**

6in. TGB. 12/6	3in. x 4in. Batters 26/6	1in. x 3in. Batters 6/-
5in. T and G. 13/-	3in. x 3in. Batters 17/6	1in. x 2in. Batters 4/3
4in. TGB. 11/-	2in. x 4in. Batters 15/6	1in. x 2in. Batters 2/6
3in. TGB. 9/6	2in. x 3in. Batters 12/-	1in. x 5in. Saw Bds. 7/6
2in. TGB. 8/6	2in. x 2in. Batters 8/-	1in. x 5in. Saw Bds. 8/9
1in. TGB. 8/9	1in. x 2in. Batters 6/-	1in. x 5in. Saw Bds. 11/6
		3in. x 5in. Wether Bds. 7/6

To ensure prompt dispatch please send cash with order and state nearest Railway Station.  
For Galvanised Wire Netting quoted for on application. Creosote Wood Preservative 1/- 2 gall. Casks,  
at 50/- carriage paid.

**WILEY BARNES & CO. (Saw Mill Dept.), 87, Dale Street, Liverpool. Central 2183.**

## PIERCE-GROVE, M.S.P.B.A., L.U.P.S., STOKE COURT.

er Utility White Leghorns and White  
Wyandottes.

**NEW BLOOD FROM AMERICA.**

Miss this chance of improving your  
Pens.

**FOR SALE.**

**WHITE LEGHORN COCKERELS.**  
**HITE WYANDOTTE COCKERELS.**  
February and March hatched, splen-  
did, well-matured, and vigorous birds, bred  
my own well-known strain 1921 hen,  
d to magnificent cockerels (proved  
did breeders), imported direct from  
famous egg farm in British Colum-  
bia. These cockerels guaranteed from dam  
specially large eggs.

otion invited of my up-to-date egg  
built up from T. Barron's best 3,000  
ing Birds, Mammoth Incubator, etc.  
Particulars, Prices, etc., apply to  
Earl of Eltham, Stoke Court, Stoke St  
Newington.

**BOOK THE DATES—Dec. 28th, 29th & 30th**

## THE THIRD MIDLAND FESTIVAL

Utility and Exhibition Poultry, Eggs,  
Pigeons, Rabbits and Canaries.

**BINGLEY HALL, BIRMINGHAM.**

Promoted by the Midland Federation of  
Feather and Fur Societies and the  
"Birmingham Mail."

Send Applications early for Schedules and  
Entry Forms.

**Cups and Prize Money over £500 in Value.**

Specialist Judges and Comprehensive Classi-  
fication, including many new and novel  
features, Cook Crowing Competitions, etc.

Stand Space to let at reasonable prices.  
**Special Table Space for Poultry Breeders  
at Nominal Fees.**

Full particulars from the Hon. Organiser.  
For the Midland Federation of Feather and  
Fur Societies and the "Birmingham Mail."  
to Albert H. Brain, Poultry Service, West  
Bromwich.

## STANBRIDGE GRANGE POULTRY FARM



OUR EGGS ARE  
SOMETHING TO  
CROW ABOUT.  
OUR CHICKS ARE  
SOMETHING TO  
KNOW ABOUT.  
BUY BOTH  
TO-DAY!

## Exhibition and Pure-Bred Utility Birds.

**LIGHT SUSSEX.**—1st and Sp., Lewes. 1st and Sp.,  
Redhill. 1st and Sp., Tunbridge Wells. 2nd  
Utility, Crystal Palace, etc.

**WHITE LEGHORNS.**—1st Redhill. 1st, Uckfield. 1st,  
Sussex Agricultural, etc.

**BLACK LEGHORNS.**—1st and Sp., Lewes. 1st Royal  
Counties. 1st, Royal. 1st, Tunbridge Wells,  
etc., etc.

**TOULOUSE GEESE, AYLESBURY DUCKS.**

**COCKERELS:** 21/- to £3 3s. 6d.

**PULLETS:** 17/6 to £2 2s. 6d.

All Birds sent on Four Days' Approval.

All Birds Trap-nested. Only L2 Birds bred from.  
Please note Change of Address, and when in our  
neighbourhood do not fail to visit our new 110 ACRE  
MODEL FARM. Write to-day for Free Illustrated  
Price List to

## MRS. HARRY KENT,

**TANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**

Station: PEVENSEY or BEXHILL.

## TETNITE (TRADE MARK) FISH MEAL THE GREAT EGG PRODUCER.

"TETNITE FISH MEAL" is unrivalled for Egg  
Production and building up sturdy chickens; it is of  
superfine quality, and can be relied upon always.  
21/- per cwt., 13/- per 1/2-cwt., 7/- per 1/4-cwt.

Supplies can be obtained with a special discount through the S.P.B.A.,  
Carriage paid to any station in Great Britain.  
Cash with order. A Copy of Illustrated  
Feeding Pamphlet free with every order.

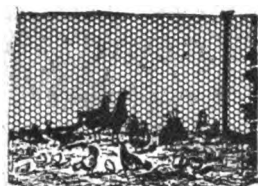
**TETNEY OIL & MEAL CO., LTD.,**  
101, Leadenhall Street, London, E.C.3.

## BEST ENGLISH GALVANISED

### Wire Netting

OF SUPERIOR  
and GUARAN-  
TEED QUALITY.

heavily Galvanised.  
Direct from Factory.  
Made in Norwich,  
England. Greatly Re-  
duced Prices. £8 5s.  
lots carriage paid  
England and Wales.  
50 yard rolls.



Our netting rolls out straight and flat  
like a carpet. If prices are lower than  
ours, it is highly probable that it is  
Foreign and inferior.

### Special Lines—

Prices strictly net. Sole terms—Cash with  
order.

mesh	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	gauge
Wide	Wide	Wide	Wide	Wide	Wide	Wide	Wide
1in.	9/-	16/4	23/3	30	38 7	46 4	20
2in.	5/6	10/-	13/7	18/1	22/7	27/1	19
3in.	4/-	7/2	9/0	13/2	16/5	19/8	19

**Sheep Netting, 3-ply Selvages, 4 in. mesh, 16  
gauge, 26 inch, 15/8; ditto, with centre  
strand, 17/8. Special Galvanised Netting  
Staples, 3/6 per 1,000. Strong Wire Netting  
Pegs for holding bottom selvage to ground,  
1/6 per dozen. Galvanised Binding Wire,  
10d. lb. Best Wire Cutters, 2/6 pair. For  
all other sizes, gauges, and widths see  
large list, free. Special low quotations for  
best Galvanised Barb. Fencing, Strand and  
other Wires. Corrugated Galvanised Sheets  
and Accessories. Sanded Roofing Felt, no  
tarring required, 15 yds. x 1 yd. rolls, 5/8  
per roll, carriage paid 20 rolls. Wicks  
Bros. Famous Show Pens of guaranteed  
and superior quality. 27in. x 24in., 7/6, extra  
ends 2/-; 18in., 5/-, extra ends 1/6. Show  
Pen Fronts, with sliding doors, 27in. x  
24in., 2/6; 18in., 2/- Strong Galvanised  
Cups, 6d., 9d. and 1s. each. Wicks Bros.  
Advertising Line, the Poultry Keepers'  
Tool Set, containing eleven tools, including  
hammer, 2/- per set. All carriage paid.**

## WICKS BROS., Wholesale

20, CATTLE MARKET, NORWICH.  
Phone: 1438. Contractors to H.M. Government.  
All prices subject to alteration without  
notice.

**Pockock**  
PATENT  
FELT LINED  
EGG BOX

### Eggs Insured

in the  
"Pockock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

## 1922 PULLETS. MAJOR HEAPS.

Roschill, Market Drayton, Salop.  
Has for Sale, from 15s. each, Pedigree Feb-  
ruary-March hatched W. Wyandotte. L.  
Sussex Pullets.

W. Leghorns, April-May, bred from my  
"Daily Express" and S.P.B.A. Competition  
Winners.

Stock Birds from 17s. 6d. 1921 Pullets  
prices according to record.  
F. and W. Runner Drakes 10s. 6d.

## "ZENITH TRAP-NEST"

As used by the Large Poultry Keeper.  
Also in the Premier Laying Competitions.  
FRONTS, 3/- each, carriage paid.

## WIGNALL,

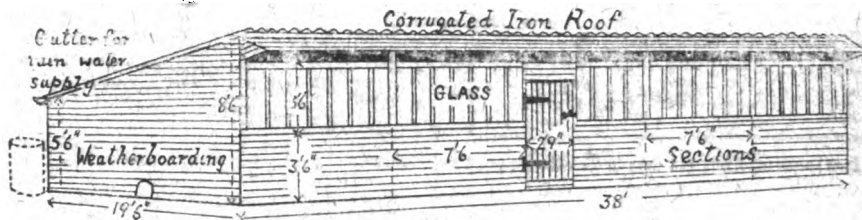
Poultry Appliance Builder,  
LONGTON, Near PRESTON.



## COMPARE OUR PRICES.

### THE SMALL CAPITAL HOUSE.

Designed by experienced Poultry Keeper, M.S.P.B.A.,  
to give Maximum Efficiency at minimum cost.  
**TO HOLD 200 BIRDS, PRICE £55.**



Durable, well-lighted, well-ventilated, furnishing its own water, can be used as a brooder, colony or laying house, in sizes from 15-ft. long upwards at proportionate cost. Nest boxes, dropping boards, or pits, dry mash hoppers, everything complete. Write for full particulars to—

**THE BERKSHIRE TIMBER CO., Ltd.,**  
WOKINGHAM, BERKS.

**Miss E. J. Bayne**

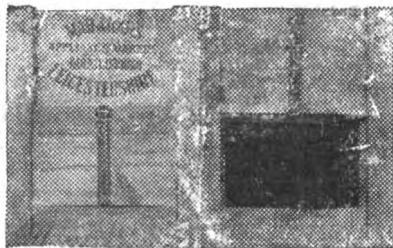
offers

**PEDIGREE  
WHITE WYANDOTTES  
OF QUALITY.**

**Pullets and Cockerels—  
all hens sold.**

**THE CHALET,**  
Stocksfield-on-Tyne.

**The "MARKHAM" Trap-nest Front**



The simplest on market. Never failing action  
Singles, 3/6. Sets of 3, 10/- Carr. Paid.  
W. & T. MARKHAM, S.P.B.A.,  
Dept. "A." QUENIBOROUGH, LEICS.

**PURE SWEET STERILISED BLOOD.**

**RENTOX (Regd.).**

7 lb. bag sent post free for 5s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.**  
BORDESLEY STREET,  
BIRMINGHAM.

## TO POULTRY FARMERS.

Why Pay High Prices for Oyster and Flint Grits, when you can use GRITTO'S CRUSHED COCKLE "SHELGRIT" Alone?

IT CONTAINS SUFFICIENT QUANTITIES OF LIME for SHELL FORMING, and is an EXCELLENT DIGESTIVE AGENT COMBINED, being PURE LIVE SHELL ONLY, and ENTIRELY FREE FROM DUST or DIRT.

**Buy the One Shell only, and  
save waste of double storage.  
And Cost of Buying TWO Expensive Grits.**

LOWEST PRICES, ex-Warehouse, or F.O.R.,  
on application to

**GRITTO, LIMITED.**  
103, Southwark Bridge Rd., S.E. 1.



**The  
S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.  
1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick  
HORSHAM, SUSSEX.

## THESE ARE STRAINS QUALITY

Buff Rocks, Rhode Island  
White Wyandottes  
horns, Aylesbury  
Ducks

**CAPT. R. C.**  
Riverside P.F. 1914

**TRAP-NESTED  
EGGS**  
LIFT  
FREE.

IF YOU ARE A BUYER

**SUSSEX GROUND OATS  
POULTRY CORN  
BARLEY MEAL  
AND ANY OTHER**

It will pay you to write  
and Prices. Free

We make the "W"  
(See last week)

**M. HANCOCK**  
(Dept. E.)

Marsham Mills, And

Try us for your WET  
made to your own  
We offer the following

**NEWMAN'S POULTRY MASH**  
MIDDS  
HEAN BROAD  
HEAN ORDINARY  
MAIZE GLUTEN FEED  
SUSSEX GROUND OATS  
BISCUIT MEAL  
CLOVER MEAL  
ENGLISH CLIPPED OATS  
Special Line Best MEAT MEAL  
Everything for the Poultry Keeper  
Stock.  
Each Free and Free on Rail. Cash  
Order.

**DRAKARD & CO., Ltd.**  
Corn Merchants.  
PUBLIC HALL, HADLEIGH, ESSEX

**G. R. PINDER, M.S.P.B.A., F.R.S.**  
Lindsay Poultry Farm, Carlton, Louth, Lincs.

Offers the following stock:  
Six MARCH R.I.R.D. PULLETS, 1914  
Six MARCH W. DOTTED PULLETS, 1914

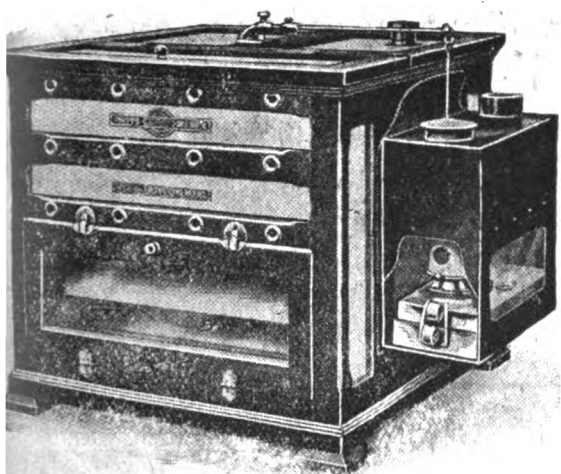
The above are on point of lay, and  
guaranteed bred from TESTED 12 Month  
Ten KHAKI-CAMPBELL DUCKS, 1914  
point of lay. Bred the same as my  
LEY Pen, which laid 1,026 eggs in  
months. Average 205-2.

Price of all above £1 each. Carriage  
on approval.

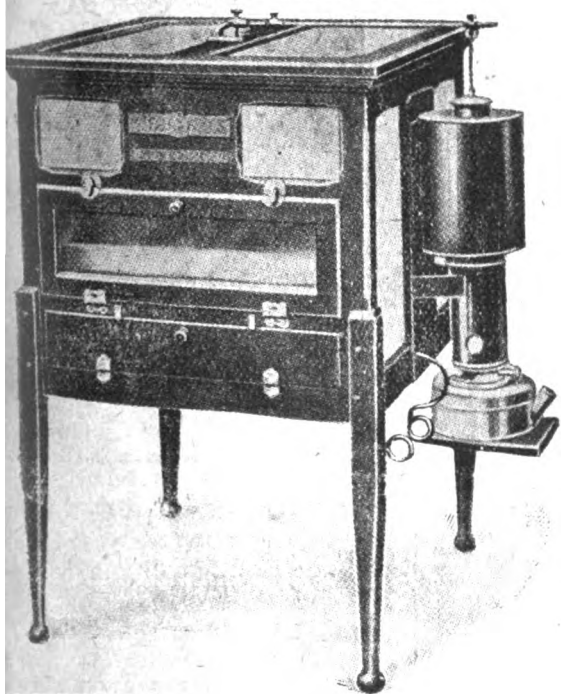
**STOCK COCKERELS:** W. Leghorns, 1914  
Reds, and L. Sussex, all from ind  
High Record Hens. Khaki-Campbell 1914

Fullest Particulars on application

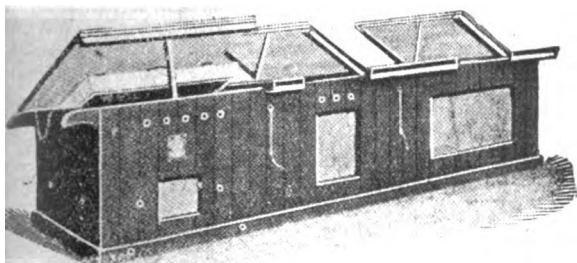
# BACK OF THE BIG HATCHES



Phipps' "PERFECTION" Incubator.  
(IRONSTONE HOT-WATER MODEL).



Phipps' "PREMIER" Incubator.  
(IRONSTONE HOT-AIR MODEL).



Phipps' "PERFECTION" Foster Mothers.

**STANDS. PHIPPS' Incubators.** — These marvellous hatching machines have led all competition for the past twenty-five years. PHIPPS' Incubators for 1923 are still ahead of all competition, giving a twenty per cent. improvement over other machines. They are the incubators that hatch the most chicks—the best chicks—with the least labour and at lowest cost under all conditions.

PHIPPS' "UNIVERSAL" Egg Turning Device is the only egg-turning device in the world that fits any make of incubator. It turns every egg every time without possibility of mistake, prevents the eggs touching one another, and holds the eggs in the correct hatching position. This egg-turning device has no rival, and every poultry-raiser should get details without further delay.

PHIPPS' Perfection Foster Mother for 1923 is the best brooder ever made. It should be—into it has gone the accumulated experience of years devoted to the building of the world's best brooder. It will positively raise every raisable chick to early maturity—don't waste time or money on other brooders, but write for PHIPPS' Catalogue at once—it will be sent free per return post.

## PRICES.

Phipps' 'Perfection' Incubator			Phipps' 'Premier' Incubator.		
30 egg size	...	£6 15 0	70 egg size	...	£6 15 0
60	"	8 10 0	110	"	7 15 0
100	"	10 0 0	160	"	8 10 0
200	"	15 0 0	260	"	11 10 0
			400	"	15 6 0

### Phipps' 'Perfection' Foster Mother.

60 chick size, £6 6 0.

100 chick size, £7 7 0.

150 chick size, £8 10 0.

PHIPPS' Incubators and Brooders can be bought on easy terms from J. G. Graves, Ltd., Sheffield, or the Service Co., 292, High Holborn, London. W.C. If purchasing on these terms, please write either firm direct.

**A. E. W. PHIPPS, Midland Works, No. 4, HARBORNE, Birmingham.**

## WATFORD POULTRY FARM.

**JANUARY AND FEBRUARY COCKERELS.** Some excellent breeding pens, male  
 White Leghorn, Rhode Island Reds. with 1922 Cockerel. Padman Leghorn  
**BLACK MINORCA COCKERELS.**  
 24 LIGHT SUSSEX YEARLING HENS, L2.

**Apply—JOHN MEEKINGS, W.P.F., WATFORD.**



THE GREEN-CLOVER MEAL PEOPLE.

*If you want Autumn and Winter Eggs*

**Don' let your hens 'hang' in their moult.**

As soon as they have shed most of their old plumage give them our **GROWING or FEATHERING MASH** for a few weeks; it may easily make a month or two's difference to their starting to lay again.

*May we send you our Latest Price List.*

**THE STEYNE FOODS Co.,**  
**STEYNING, SUSSEX.**

### MINERAL SALTS

A high-grade mild aperient containing valuable Iron Tonic properties. For birds in the moult and for generally toning up the system it has no equal.

*In patent air-tight tins,*  
 2-lb. size, 2/6. 4-lb. size, 3/9  
 CARRIAGE PAID.

The Cost is next to nothing—  
**LESS THAN A FARTHING PER BIRD.**

**ALBION THORPE & SONS,**  
 POULTRY FOOD MAKERS, RYE, SUSSEX

### POULTRY BREEDERS

#### DRIED YEAST.

Analysis.	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.35
*Including sand	.05

#### OSSIFIED YEAST.

Analysis.	per cent.
Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
†Ash	21.04
	100.00

* Containing Nitrogen	per cent.
† " Phosphate of Lime	6.36
" Sand and Silicious matter	18.05
Total Food Units	0.31
	156

#### PRICES:—

Dried Yeast, 20/- per cwt.  
 Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
 Cash with Order.  
 10 per cent. discount to Members of the  
 S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
 Derby Road, BURTON-ON-TRENT.

### MOORSWOOD POULTRY FARM,

**HERONS GHYLL, UCKFIELD, SUSSEX**  
 Proprietors: Mrs. James Hope & Miss A. Howard  
 Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
 Rhode Island Reds (s.c.) Light Sussex  
 and White Wyandottes.

PULLETS from £1. COCKERELS from £1 1s.  
 A Limited Number of 1921 PULLETS at 12/6.

### START WITH GOOD STOCK

Our Stock of High Class Utility can be absolutely relied upon. possess Colour, Type and Stamina. bred to lay a good sized egg in quantities.

We have upwards of 2,000 Birds from, bred and reared on our own from birds with records of 200 eggs.

**RHODE I. REDS, 1922 PULLETS**  
**BUFF ORPINGTONS, 1922 PULLETS**  
 April Hatched, 14/- each, carriage

**WHITE LEGHORN PULLETS**  
 May, 1922, Hatched, 12/6 ea., carriage

**BUFF ORPINGTON COCKERELS**  
 March Hatched, 20/- carriage

Managing Partner, **WILFRED I.**  
**Ashgrove Poultry Farm**  
**ELLAND, YORKS.**

### COCKERELS.

W. Wyandottes, Wilts' Silver Male  
 Leghorns, 5th, National Egg Laying  
 1922; L. Sussex, Miss Dawson's Gold  
 February and March hatched. No  
 Vigorous Birds.

All birds offered have been immunized  
 with latest American Serum as a  
 preventive of disease.

Price, 32s. Each, carriage paid

**Mrs. KNIGHT, S.P.B.A.**  
**ODSTOCK, SALISBURY**

### GOVERNMENT SURPLUS.

#### Galvanized Steel Bins



Holds 11 cwt.  
 of 17 gallons

Wood Cases, 5  
 14in.

1 to 5. 6 to 11.  
 4/3 ea. 4- ea.

Big Bargain

**H. GORDON**

166, LINDEN  
**GLOUCESTER**



November 8th, 1922.

EGGS.

# UTILITY" TRADE POULTRY FOODS

Deal Bargains until Parcels Cleared.  
Special Offers to S.P.B.A.

	per cwt.	s. d.
ags Pure White Wheat Meal	12	0
ags Best Sussex Ground Oats	15	0
ags Fine Biscuit Meal	14	0
ags Best Quality Fish Meal	15	0
ags Maize Gluten Meal	12	0
ags Maize Germ Meal	11	6
ags Best Mixed Fowl Corn	12	0
ags Heavy Clipped Oats	12	0
ags Dari Seed, Red 10, White	11	0
ags Manitoban Feed Wheat	10	6
ags Light Wheat, Good Value	8	6
ags Vegetable Charcoal	14	0
ags Special Laying Meal, consisting of Biscuit, S.G.O. Wheat Meal, and Meat Meal	16	0

R. Liverpool. Bags In. Cash Terms.  
LYLE MILLS, Argyle St., LIVERPOOL  
Tel: 2586 Royal. Telegrams: "Emphatic."  
Established 1868.

## L. & J. A. THOMSON

a few Selected 1922 Hatched Pullets,  
ed to their pen of Light Sussex that  
were

at 1921-22 Midland Laying Test

severest Test of the year, proving the  
stamina of our stock.

n also spare a few WHITE WYAN-  
DOTTE 1922 Hatched Pullets.

ces from 15/- each, carr. paid

WHITE RUNNER DUCKS, 7/6 each.

ERSHAM, WREXHAM.

**DR. J. H. BALDWIN,**  
**SPRINGFIELD P.F. WIMBORNE, DORSET.**

**ONLY THE VERY FINEST STOCK in**

**White Leghorns,**

**White Wyandottes,**

**R. I. Reds (s.c.)**

**Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.**

If you get them from "HOMELAST" it means  
**SATISFACTION!**

**ANCONAS, and THE ADJUSTABLE  
TRAP-NEST FRONT**

(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

**VICTOR P. WILLIAMS,**

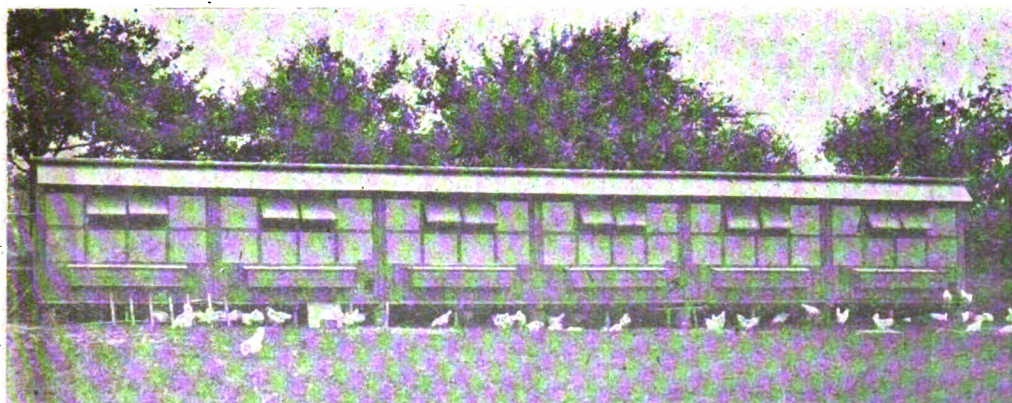
Homelast Poultry Farm, BEXHILL, SUSSEX  
A Small Farm with a Big Reputation.

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20-21 Bantams. Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other Varieties. Also all kinds of Water Fowl, Fancy Pheasants, White, Black Winged Blue and Specifer Pea Fowl, Partridges, etc. Send Threepence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.

## The "PONDTAIL" Semi-Intensive House.



Illustrated Catalogue Free on Application.

3in. T and G. matching on 2in. by 3in. and 2in. by 4in. framing. Made in 10ft. sections.

No.	Length.	Width.	Front.	Back.	PRICE.	
No. 1	10ft.	12ft.	8ft.	5½ft.	£18	Floor Extra, £6
No. 2	20ft.	12ft.	8ft.	5½ft.	£32	" " £10
No. 3	30ft.	12ft.	8ft.	5½ft.	£46	" " £14
No. 4	40ft.	12ft.	8ft.	5½ft.	£60	" " £18

Carriage Paid. 7½ per cent. discount to Members of S.P.B.A.

**PONDTAIL POULTRY FARM,**

(Prop. : J. V. MILNER-LENNARD, M.S.P.B.A.)  
**FLEET, HANTS.**



## Summerfield White Wyandottes

Pen 52. Winners of Gold Medal. Three First and Three Second Class Certificates. Laid 1,567 Eggs in 12 months, 1,450 being laid at the Harper-Adams Agricultural College Laying Trials. Average per bird: 261.15 in 12 months.

### This Pen also Broke all Previous Records.

They excell in the most important points the breed should possess, viz.:-

- 1.—Birds well up to Breed Type.
- 2.—Birds of good size, but not coarse, excelling in quality.
- 3.—They have proved they will lay all the year round.
- 4.—One of the chief points in this strain is that they lay eggs well up to standard size, 2 ozs. See for yourself in official report the size of eggs they lay.

The entire Flock and Complete Poultry Plant, including Pens 74 and 74E, competing this year at the Harper-Adams Agricultural College, has been sold by

Mr. C. E. SUMMERFIELD

TO

**Mr. MICHAEL F. PHELAN, S.P.B.A.,**

Cleave Barton, Northam, N. Devon,

To whom all Communications should be addressed.

Telegrams and Cables: "Phelan, Northam." Code Used: Marconi International.

Telephone: Northam 62. Railway Station: Bideford, L. and S.W. Railway.

INSTALL THE

## All "VITA" Metal TRAP-NEST FRONT.

BECAUSE it is not made by hand labour, but manufactured on modern machines in large quantities, and is therefore the cheapest in first cost and cheapest always

**CANNOT WARP OR CRACK.**

THE NEST EVERYONE IS USING FOR DUCKS.



SET.

A SINGLE ACTION RESETS THE NEST OR LOCKS IT OPEN.



OPEN.

**THORP RODERICK MFG. CO.**

32, BROADWAY, BEDFORD.

## More and Bigger Eggs from your Poultry

can be obtained by feeding your birds on a natural and complete food

# PŪLBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.

Made by the Manufacturers of  
**MELOX and MELOX MARVELS,**  
the PERFECT DOG FOODS.

**W. G. CLARKE & SONS, Ltd.,**

LIMEHOUSE, LONDON, E.





Wednesday, November 15th, 1922.



# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI. No. 20. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## HARRY

## HEBDITCH

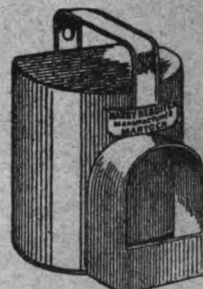


The "DELTA"  
Non-Clog Dry Mash  
Hopper. Rat proof.

No. 1 is 18in. deep, 8in. long; No. 2  
is 18in. deep, 12in. long; No. 3 is  
18in. deep, 18in. long; No. 4 is  
18in. deep, 36in. long.  
Price:  
No. 1, 7/6; 3 for 22/3; 6 for 42/9;  
12 for 81/- No. 2, 10/-; 3 for  
28/9; 6 for 55/3; 12 for  
102/6. No. 3, 12/6; 3 for 36/-  
6 for 68/6; 12 for 129/6.  
No. 4, 21/-; 2 for 41/-;  
3 for 60/-  
Carriage Paid Pas-  
senger Train.  
Prompt  
Despatch.

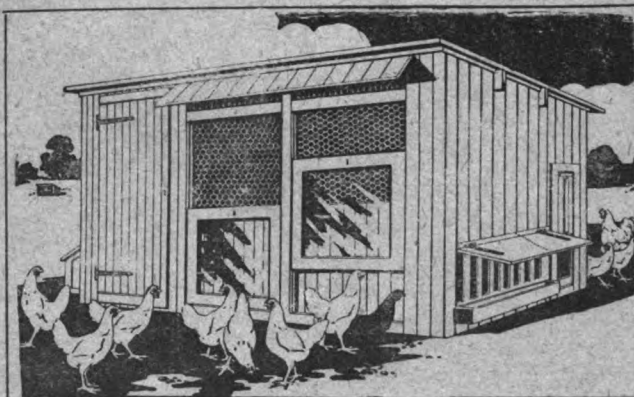
A most  
successful  
Winter-Egg-  
Producing House

A Protective Design, which keeps  
the water pure. Prices:—  
No. 1, 1-gall. size, 2/9 each, 3 for  
7/9, 6 for 14/6, 12 for 27/- No.  
2, 1-gall. size, 3/3 each, 3 for  
9/3, 6 for 17/6, 12 for 34/-  
No. 3, 2-gall. size, 4/9 each,  
3 for 14/-, 6 for 28/-, 12  
for 54/- No. 4, 3-gall.  
6/-, 3 for 17/6, 6 for  
34/-, 12 for 66/-  
Carriage Paid.  
Passenger  
Train.  
Prompt  
Despatch.



The "WALLFONT"  
Drinking Fountain.

No. 1  
Size.  
9ft. long, 5ft.  
wide, 5ft. 6in.  
high.  
Price:  
**£7 8 0**  
Floor 26/6  
extra.  
No. 1 has 2  
glass  
windows.



The Popular  
"EXCELSIOR"  
Semi-Intensive

No. 2  
Size.  
12ft. long, 6ft.  
wide, 5ft. 8in.  
high.  
Price:  
**£9 15 6**  
Floor 39/-  
extra.  
No. 2 has 3  
glass  
windows.

In order to produce a really first-class laying house the following details have  
been carried out in designing the "EXCELSIOR":—A wide dropping-board,  
the whole length of house, is placed below the perch. This keeps the floor  
clean for the scratching litter. The Nest Boxes are made to slide up and  
down, and are kept in place by chains. The house is ventilating shutter above  
and a feeding trough at the other. The house is constructed in sections, G.  
the windows is adjustable. It is constructed in sections, G.  
best Swedish deal boards. The house is made of tin, T. and G.  
and sent promptly, with bolts and spanner for  
erecting. carriage paid. England and Wales.  
If pickled, by immersion, the cost is  
1/6 in the £  
extra.

**HARRY HEBDITCH, Ltd.,**  
Desk J.  
The Poultry Appliance Works,  
**MARTOCK,**  
**SOMERSET.**  
Send for the Free Catalogue of  
Everything for the  
Poultry Keeper

# PRIEST & SHAW'S

**SPECIALITY**—Scientific Breeding for Egg-Production, Pedigree Wyandottes and Leghorns. (Small-pen System.)



*The originals of these letters have been inspected by the Editor.*

## Can Any Firm wish for Better Testimony ?

Letter No. 78.

Sunnyhill,  
WIMBLEDON,  
Oct. 6th, 1922.

Messrs. Priest and Shaw,  
SANDOWN.

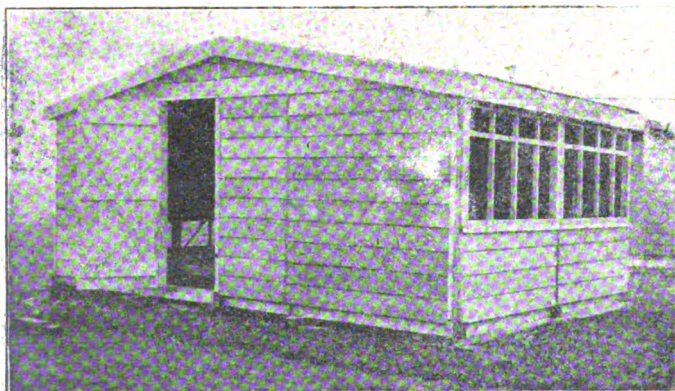
Dear Sirs,—

I am delighted with the pullets. They are most beautiful looking birds. Three of them have begun to lay.

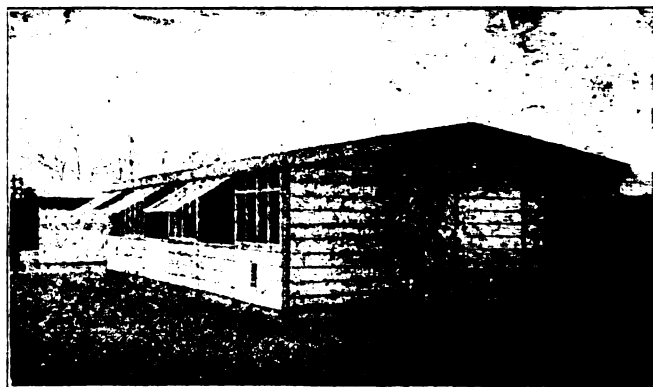
Yours very truly,  
Mrs. I. BISHOP.

Now is the time to Book February-Hatched Pedigree Cockerels. Full Pedigree Supplied. We can Offer a Limited Number of Well-developed Pullets, due to commence Laying during the Month of October. Prices from 21/- each. Approval.

## SANDOWN, ISLE OF WIGHT.



TWO UNITS: 10ft. x 15ft. A.P. MODEL.



SIX UNITS: 30ft. x 15ft. A.P. MODEL.

## EXTENSIBLE UNIT BUILDINGS

Reduce Incubation, Brooding and Rearing Risks to a Minimum, owing to Perfect System of Ventilation and Lighting.

Numerous articles in "Eggs" ascribe failures in Hatching, Brooding and Rearing mainly to faulty ventilation and to inadequate lighting. EXTENSIBLE UNIT HOUSES achieve a maximum of floor lighting with entire absence of ground drafts.

The Two Illustrations show a 2-Unit House, enlarged to one of 6-Units, converted from Brooder to Laying House.

When writing for free information state your requirements fully. Diagrams free.

COMBINED INCUBATOR and Brooder Houses

Members are invited to inspect free, by appointment, a complete model plant in full operation. It comprises Incubator and Brooder, 4 Breeding Pens stocked with Bentley Strains, and Laying Houses, all of the extensible and convertible type.

# W. H. COLT, M.S.P.B.A., BETHERSDEN, KENT.

M.N.U.P.S.,



**P**OULTRY-KEEPERS, one and all, far and near acknowledge and respect the supremacy of

## CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

### *Consistent Success*

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

WHITE LEGHORNS, WHITE WYANDOTTES.

**EDWARD CAM,**

THE GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

PRICE  
LIST  
UPON  
REQUEST.

Satisfaction  
Guaranteed.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

# SONIMOR

(WHITE LEGHORN)

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

**LOOK OUT for OUR  
1923 PRICE LIST!!**

BOOK your ORDERS for HATCHING  
EGGS and DAY-OLD CHICKS in  
GOOD TIME (Saves future worry).

Only a Few Specially Selected  
Cockerels from 6/- left.

\*Phone:—  
6 Chaddleworth.

Grams:—  
"Sonimore, Leckhamstead."

## EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

HIS

**WHITE WYANDOTTES**  
and **WHITE LEGHORNS**  
are unbeatable as layers of  
large eggs, and plenty of them.

Send 11d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

### WHO SERVES BEST.

*Please mention "EGGS" when  
replying to Advertisements.*

**"An Egg in Every Ounce."**

## CLOVER MEAL

**FOR POULTRY.**

"Klovers" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

*"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.*

**Price 18/- per cwt.  
Half-Lot 10/-**

*Special price for 5 cwt. lots.  
Carriage Paid in England*

**ROSSLYN & Co.,**

30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.



THE  
**"DALE-VITA"**  
**DUCK RECORDING HOUSE**

The Result of Experience  
 Tested & Proved Perfect

Full Particulars:—

**DALE DUCK FARM,**  
**DIBDEN, HANTS.**

**Bred-to-Lay Strains**

OF  
**W. WYANDOTTES,**  
 (BARBON.)  
**W. LEGHORNS,**  
 (PADMAN.)

**Stock Cockerels and Breeding Hens**

Selected Strong Vigorous Cockerels.  
 Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
 Winter Egg Test.

Pedigree, Records and Particulars, post  
 free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

**GRANULATED  
 MOSS LITTER**

For POULTRY HOUSES.

1 2-Bushel Sack containing  
 about 28lb., 3s. 6d.; 2, 5s. 6d.;  
 3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
 canvas covered, 15s. All car-  
 riage paid. Cash with order.

THE PEAT MOSS LITTER  
 SUPPLY CO., LTD.,

32, Thorne Wharf, Commercial  
 Road, Blackfriars, S.E.1.

**WHITE LEGHORN FARM,**  
**WOODMANCOTT,**  
**MICHELDEVER, HANTS.**

A. F. C. Holdaway,  
 W. T. Holdaway,  
 H. Holdaway,  
 C. Holdaway.

Telegrams—  
 "HOLDAWAY,  
 EAST STRATTON"

Hatching Eggs and  
 Day-Olds in Season

Won't you be in time for Hatching Eggs? Ah, yes, and book them now!

A thousand second and third season hens are kept, and will be mated to birds whose  
 dams have recorded not less than 200 eggs and upwards to 250 eggs in their pullet year.

**Price 7/6 for 12. 60/- per 100.**

Good Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.

Bankers: Messrs. Barclay's Bank, Ltd., Basingstoke.

**PULLETS, April Hatched, 15/-**

**May, 12/-**

**W. MASON, M.S.P.B.A., P.C.,**  
 Littledale Poultry Farm, Halam,  
 NEAR SOUTHWELL, NOTTS.  
 Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock various ages,  
 in White Leghorns, White Orpingtons,  
 White Wyandottes, Light Sussex, Anconas (s.c.)  
 R.I.E. (s.c.), and Barred Rocks.  
 Inspection invited. Cash or Deposit. Tel.: 50Y3

**QUALITY,  
 PRICE,  
 MAIN DELIVERY.**

SEND FOR SAMPLES AND PRICES

**JOHN W. BEVANS & Co., Tangle Hill, Potters**

**SPECIAL LIME STONE GRIT.**  
**NONE GENUINE WITHOUT THIS.**  
**TRADE MARK.**

Takes the place of Oyster Shell and Flint Grits.  
 (Reg.).

2s. 6d. per cwt., 65s. per ton.

F.O.B. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's B.A."

**E. LESLIE PATTISON,**

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**

**ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND**

**STOCK COCKERELS.**

Full Pedigree supplied with every bird.

Speciality—Bred from pen averaging over 400 Eggs in 2 years. From 18/- each.

A few Pullets all ages from 12/6.

Recorded Breeding Hens

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, November 15th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

We have received the following letter from a Surrey reader:—

"Dear Sir,—I have been most interested in recent articles in 'Eggs' on 'The Present Position.' I wonder if you could find space for a few comments on the possibilities of the following case. It is a position I think a certain number of your readers, who intend to embark upon egg production, may find themselves in.

Would it be possible, after a while, to make, say, £300 a year profit, over running expenses, assuming the following conditions:—

- (1) Sufficient income to live on apart from profits, but not sufficient to cope with heavy losses.

- (2) Sufficient capital to lay out and stock the most recommended type of farm.

- (3) Adequate knowledge and keenness to work hard, combined with a love of poultry.

Not many are blessed, it is true, with the above conditions, but there are certainly a number who are, and I think your comments on the problem, as stated, would be a help to those who may be in these kind of circumstances."

One can hardly describe this as a "problem." In effect, it is a question as to whether or no Egg Farming can be made to pay a reasonable profit under conditions which may fairly be said to be most favourable. To this we may answer that we have known such a profit to be made under conditions which were far less favourable.

The total capital, in which we include ADEQUATE KNOWLEDGE, and keenness to work, combined with a love of poultry, is a very large one. The one item which appears to be missing, and to which we attach the utmost importance is **APTITUDE FOR THE WORK**. It is necessary to emphasise this, because we have known men to be keen, well trained, hard-work-

ing, and, added to this, possessed with a love of the work, who have yet failed miserably, when all conditions seemed to be favourable to their success, while others possessed, of very little knowledge, and that gained from reading, with small capital, have pulled through, and made a most astonishing success of it.

There seems to be no obvious reason why our correspondent should not succeed in realising the £300 nett profit, the necessary business ability is, of course, an important factor, of which we lose sight of too often. It certainly would be helpful if on some of the farms where students are trained, a little more attention was given to the marketing side. It is very astonishing on some farms to find how very badly the marketing is done, or rather the lack of effort to find a really good market, and also the inefficient manner in which the food, etc., is bought.

At no time probably is the prospective poultry farmer so badly in need of sound advice as when he is actually starting, particularly in regard to the purchase of stock. He either pays a most extravagant price, with the idea that only the best is good enough, or else buys for a mere song the "culls" of a Commercial Egg Farm. In the former case, at least, he might ask himself if there is any hope of a return on his outlay, and a little calculation would in very many cases show him there is not; while, in the other case, he might realise that what is sold for a "mere song" is not likely to prove profitable in his hands. This brings us back to the point as to what comprises ADEQUATE KNOWLEDGE. The man who is not able to start a farm without making a grave mistake in the initial purchase of his stock, can hardly be said to possess it, and it is difficult to see how on some of the farms on which training is given, he is able to acquire it. Our correspondent mentions "sufficient" capital. On the manner in which it is laid out, will depend whether it is sufficient or not.

While on this question of Commercial Egg Farming, we would again like to ask what proportion of the stock it is thought necessary to replace each year. Have any of our readers any statistics they can send us which would show the difference in the value of the eggs laid by pullets and by yearling hens over a period of twelve months? We know the old idea was that it was necessary to replace two-thirds of the stock each year with pullets, but with a well culled flock is this necessary? The effect of the culling would probably not be fully observed for three or four years. In view of the narrow margin of profit the question is an important one, and will well repay investigation. Of necessity a proportion of the stock must be replaced each year, but it would certainly be interesting to know to what extent a flock of selected hens would compare in value of eggs laid to a flock of pullets, and whether the difference in the profit over 12 months is sufficient to compensate for the cost of raising such a big proportion of pullets.



## MAIZE BY-PRODUCTS.

By Lt.-Col. F. W. HARDY.

Through the courtesy of Messrs. Garton, Sons and Co., Sugar Manufacturers, of Battersea, I was given the opportunity of visiting their works a few days ago, and the following account of what I saw will probably be of interest to readers of "Eggs."

Maize, which is used in the manufacture of solid or liquid Glucose, as the case may be, is brought to the factory in Thames barges, and raised to the top of the building in grain elevators. Here it is first thoroughly cleaned, then put into tanks, where it is soaked for some time in water impregnated with sulphur dioxide gas. The latter not only aids in the disintegration of the grain, but, being a powerful antiseptic, prevents any putrefaction taking place during the processes to which the maize is subjected.

After leaving the tanks, the grain descends to a lower floor, and is there coarsely ground whilst still wet. It is then further mixed with water, and the germs—which contain much oil—being lighter, rise to the surface, and are removed. The remainder is washed on to oscillating screens of fine meshed copper wire or silk. A portion of the starch, suspended in water, passes through these, and is led off to settling tanks. What remains behind on the screens, eventually falls over the lower edge into a channel, in which works an endless screw, and so once more to the mill to be reground. This process is repeated about four times, until most of the starch is removed; the material which will not pass the screens is by now well broken up, and forms the product known as Maize Gluten Feed. It has still to be dried. First as much water as possible is squeezed out in a press, then the residue is passed into huge revolving cylinders heated by steam under a pressure of about 20 lbs. In about ten minutes it escapes at the far end, dry.

The maize germs, which are spindle-shaped, and about the size of a small grain of wheat, are pressed to obtain as much oil as possible—still 12—16 per cent. remains behind. The residue is dried by steam heat, pressed into cakes, and subsequently ground, to form Maize Germ Meal.

The starch obtained is heated with dilute acid, which, according to the conditions employed, changes it either into solid glucose for use in the manufacture of beer, or into liquid glucose, used in the sweet-making, fruit-preserving and similar industries.

Now as to the value of the by-products.

### 1. MAIZE GLUTEN FEED.

An average sample gives the following analysis:

	per cent.
Moisture	8.25
Oil	5.06
Albuminoids	21.06
Carbohydrates	58.48
Fibre	5.60
Ash	1.55
	<hr/> 100.000

About two-thirds of the Albuminoids consist of Zein. It is a protein wanting in the more-important amino acids, but as these are supplied to fowls in other foods, such as fish meal, it is not a matter of great consequence. A certain amount of Glutenin, a high-grade vegetable protein, is also present, besides a small quantity of Edestin, which is abundant in hemp-seed, and to which the latter owes much of its great feeding value. In assessing the value of proteins and other food stuffs we must not be guided entirely by analysis. Digestibility is of equal or even greater importance.

Compare Maize with Beans and Peas. The latter are richer in Proteins, and these are of better quality than those of Maize. They are, however, not nearly so digestible by fowls, as those found in Indian Corn.

The Carbohydrates consist chiefly of starch. The heat to which Maize Gluten has been subjected in the process of drying, must tend to burst the cellulose envelopes, and make the contents much more accessible to the action of the digestive juices.

### 2. MAIZE GERM MEAL.

This contains about 13 per cent. of Protein, and from 12-16 per cent. of Oil. A certain amount of iron is also present. It is too fattening for the Jungle Fowl type of hen, but for a bird that is becoming exhausted after a long course of laying, in whom every scrap of fat has passed into her egg yolks, it is invaluable, and will help her to continue to produce eggs, where an increase in the protein ration alone, will fail. It is also a good food for hens during and after the moult, as it assists feathering, and also for breeding stock. Used with discretion and observation it is a most useful addition to the mash at a reasonable price.

### 3. MAIZE GLUTEN MEAL.

This is richer in proteins and poorer in carbohydrates than Maize Gluten Feed. It is not made by Messrs. Garton and Sons, but by some other firms and results from a more complete abstraction of the starch raising the albuminoid ratio of the by-product. I see no advantage in this, rather the reverse, as we do not wish to employ vegetable proteins to such an extent as to necessitate a reduction in the amount of that of animal origin usually given.

As a matter of actual fact, one may order the Meal, but it is usually the Feed which arrives.

Poultry Farmers who have not yet tried Maize Germ Meal and Maize Gluten Feed, might well turn their attention to them.

## POST YOUR COPY EARLY

Advertisers are frequently disappointed in not having their advertisements appear in "EGGS," through the Copy not reaching us in time. This is due to the alterations in the postal delivery times.

We would therefore request that Copy should be posted not later than Thursday.

## POULTRY KEEPING AND FRUIT GROWING.

By FRANK SMITH.

To my mind there are no two branches of farming that combine so readily to such advantage as poultry keeping and fruit growing, whether you make the poultry business the principle one and the fruit growing a side line, or vice versa, the advantages are many and the benefits great. While it is here that a good living can be made from poultry alone, if properly looked after at the same time, an additional £20 or £30 (sometimes a good deal more) per acre, would be very acceptable to most people. There is also the advantage of shade for the fowls during the hot summer months. Yet another advantage is the arrangement of labour, the most busy time for the poultryman is the spring, when there are some hundreds or thousands of chicks to attend to. This means either working your regular hands very, very hard, or else employing a "casual" hand. Now the most busy time for the poultry is the slackest time for the fruit. Apart from a little spraying, the fruit trees need scarce any attention during the spring and early summer, but by the time the chicks need less attention it will be time to commence the picking of the fruit, so that instead of looking up a "casual" each spring, another regular hand can be profitably employed. Those who have had to put up with a "dud casual" for three months, or on the other hand have had to discharge a real good man, much against their inclination, will realise the advantage on this subject.

Next we will consider the advantages where fruit growing is the principal business and the poultry the side line.

Where the system of dwarf or half-standard trees or cultivated ground is adopted, the saving of the labour bill in keeping down the weeds is a big item. I have three acres of plantation, which had got into a very bad state, absolutely cleaned up in one summer, and all the labour I employed after digging it was to hoe out the weeds once, the fowls did the rest.

Another great advantage is the amount of insect life destroyed. In my own district there have been some remarkable instances of the value of fowls amongst the fruit; some plantations, where no fowls were kept, being eaten bare by caterpillars, while adjoining ones in which poultry were run were practically free, and I am convinced that very little spraying will be needed where poultry are kept in fairly good numbers.

Yet another advantage is the value of the manure. When fowls to the extent of 100 to 160 to the acre are kept very little, if any, nitrogencous manure will be required, and as nitrogen is the most expensive of all manure this is a consideration.

Next I would like to say a word or two about position. While the best position for poultry is also a good one for fruit, it may happen that the soil on that part of the farm is not suitable; if so, one need not hesitate to plant in some other position on the farm. Some of the best and most regular crops I have known

have been grown in an orchard facing North-East, and the chicks can be moved to these orchards during the hot summer months. If the trees are planted on a South or South-West slope they will need protection from the winds, as we get most of our gales from this quarter. A good many people advise Damson trees as protection, but personally I prefer Chalk Pears or Czar Plums. Damson trees are rather an attraction for aphids, they also take much longer to grow than plums, and the fruit takes longer to pick. Pears or plums on five or six feet stems make a capital break, planted about 18 feet apart. If the slope is very steep an extra row or two farther up would be of great benefit, but whether damsons, plums, or pears are used they should be planted fairly deep and well staked.

The distance for planting depends upon three things, viz.: System, soil, and variety.

If it is a matter of filling up the pasture fields with standard trees, the usual distance is 24 feet apart each way, but if planting strong growing varieties such as "Bramleys" in rich soil, 30 feet or even 36 feet apart will not be too far. This is the system I should recommend where the fruit is the "side line." If the system is dwarf trees on cultivated ground, I should advise 15 feet apart; with one or two exceptions (such as Lane's Prince Albert and James Grieve) these should be on Paradise stock. Some people prefer planting this kind of tree at 12 feet apart, but 15 feet gives a better chance to work the ground with a horse, and also permits the growing of savcys, etc., as green food for the fowls for a greater number of years. The stems of dwarf trees should not be less than 2 feet, and I prefer buying "maiden" or one-year trees and cutting back to the height that suits me. One advantage of this system is the earliness of the trees in bearing, and from five-year trees of "Lanes" I have averaged one bushel of apples, and with 200 trees to the acre one can get a nice return quite quickly. For this reason I should always have two or three acres under this system in addition to the Standards.

As regards half-standards at 18 feet apart, I have planted a good number of these, and my advice would be the same as "Punch" gave to those about to be married: "Don't." I am quite aware that many fruit growers will not agree with me in this, but after some experience if I wanted anything beside dwarf trees I should plant standards with 6 feet stems.

Next as to variety. In this one has to be guided very largely by district, for while it is always worth while experimenting with one or two new varieties, yet the bulk of the trees should be good market varieties that suit the district, and not more than six or eight varieties. A choice could be made from Bramleys, Newtons, Annie Elizabeth, Early Victoria, Grenadier, Derby, Beauty of Bath, Cox's, Worcester, Allington, and James and James Grieve, the last two for dwarf trees only. Soil should be another guide to choice of sorts. If the soil is of a character that naturally gives colour, a good portion of the trees might be dessert sorts, but on some soils it seems almost impossible to get any colour. I know some light, rich soil in mid-Kent that grows Worcesters to an enormous size, but no colour at all; on soil of this

kind it would be better to plant largely of culinary apples, as size is one of the things needed in these.

One of the disadvantages of running poultry in fruit plantations is their fondness for the fruit. In orchards already established the only thing to do is to keep the dropped fruit picked up, and this is a nuisance; but when planting up new orchards this bother can easily be done away with by planting the early and late varieties separately, say alternate half acres of early and late. During the greater part of the year the fowls can be run in both portions, but when the early sorts are ripe the birds can be kept for a few weeks in that part where the late apples are and changing back again when the early ones have been gathered. This plan will save a great deal of loss and trouble, though, of course, it means extra expense in netting, but it is worth doing.

The pruning of the trees is too large a matter to deal with in detail here, as it is essential to adapt methods of pruning to the habits of each variety, and it is sometimes even necessary to make a difference in the same variety. There is no part of fruit growing, perhaps, that needs greater care, thought and experience than pruning.

Manuring is another of the things that must be left largely to the judgment of the grower. If the tree makes strong growth and little fruit bud it needs no nitrogen, but if the tree crops regularly and makes but very little wood it will need something to "wake it up." Always make sure that there is sufficient potash in the soil.

There is one other disadvantage that must not be overlooked, viz., the capital that is necessary, which for a few years will bring in no return. This is an important item where capital is limited, as £20 per acre will be needed. In some cases this difficulty can be overcome by the landlord consenting to buy the trees, which he will often do. The only alternative to this is to plant up gradually, as capital becomes available. In all cases it is necessary to get security of holding. One never feels like putting their best into the business if after about ten years, when the trees begin to bear, there is the possibility of either paying a higher rent or getting "marching orders."

In conclusion, just a word on spraying.

I have already said that as far as insect life is concerned, where fowls are kept, very little spraying will be found necessary, but there are other things to contend with, and it is an excellent thing to give a good spraying with Limewash every two or three years. Some spray with this every year, and one grower in this district last year sprayed his cherry trees three times. In addition to the benefit the trees derive from the actual washing, there is also the benefit of the lime to the soil, which is specially needed where fowls are kept. 120 to 150 lbs. to 100 gallons of water will, if put on warm, clean up most things.

I have not made any attempt to deal with my subject in any scientific manner, but have tried in a brief way to give some of my experiences. I cannot even dare to hope that I have made it interesting, but shall be satisfied if anything I have written may be found useful.

Both fruit growing and poultry will have their bad years. At the same time, if properly managed, there is a living to be had from either, and a better living where the two are combined.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 6s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

E. E. N. (Burgess Hill). I should certainly say it was a bit of "trade bunkum" to say that no brand of dried milk on the market at less than 45s. per cwt. was worth "touching." Having fully tested some of these brands which the writer of the letter evidently has not, I can say without hesitation that he is wrong. (2) Yes, I do think it is economic to feed the fish meal impregnated with cod liver oil to laying stock, but I should give the dried milk to chicks and breeders—that is, when it is fed to most advantage. (3) In the breeder's mash, as given, you can substitute  $\frac{1}{2}$  Fish Meal impregnated with cod liver oil for  $\frac{1}{2}$  Dried Milk. (4) The additional quantity of Sussex Ground Oats to the mash is alright, but, as I have pointed out before, the successful feeder relies on his personal observation. (5) Re your difficulty in feeding birds by lamplight and cutting down the grain, I think your best plan would be to use one of the flaked cereals. These are very easily digested. The boiled Wheat, Maize and Oats would get the birds too fat. (6) There is very little to be gained by letting laying stock range in the winter months. I could not say definitely that they would be better if kept entirely confined during the winter months as we have no comparative tests.

W. E. R. (Cavan). "In a recent issue of 'Eggs' you touched on the question of retaining pullets for a second year, and in the course of your remarks you seemed to lay stress on the fact that whether this is profitable or not is not certain, pointing out that

may be due to incorrect culling. Looking at it from this aspect, one would expect, with the number of poultry farmers who keep very large numbers of hens should be thoroughly clear which hens are most profitable to retain. For example, let us suppose that in a flock of 100 pullets 25 have been thrown out as useless, 25 have laid between 160 and 175 eggs, 5 have laid between 175 and 200 eggs, and 25 hold a record of over 200 eggs, which of these three 25's are the most likely to lay well in their second year, the moderately low ones because they have not completed their quota? the very fecund ones because they are the best? or the middle layers for a combination of the two reasons? Surely some of the big breeders must by now have proved this in their own interest, or else proved it is not economically sound to keep birds beyond their pullet year. I have not yet had sufficient experience to say, but on carrying out the principle that the late moulters are the better birds, I cannot get my second year birds to lay well for the October and November market, so that, with the possible future value of Spring and Summer eggs, the retention of hens beyond their first year does not seem good business. If you would care to give an opinion on these points in one of your articles, I think it would be of interest, and most certainly so to me, as the complete renewal of one's stock yearly is a distinct drawback to the industry."

The point I was trying to make, W.E.R., was that there is too big a sacrifice of laying stock which might well be worth carrying another year. The advice generally given is to replace two-thirds of the laying stock each year with pullets, and the question is whether this, in view of the cost of replacements, is a sound principle. Unfortunately we have no statistics which will help us, and it would not be safe to calculate on the records which you have given us, as we have plenty of proof that a bird which lays 200 or more eggs in her pullet year is very often only a sprinter, whereas we have individuals which have done poorly as pullets which have made good records in their second, third and even fourth year, so that you will see selection by records does not help us much, and that from each of your groups it is quite possible to get both good and bad birds, unless very careful individual selection is made. You make the point of the October and November egg, and it is a good one; but the real point is whether the extra value of the eggs laid by the pullet will compensate for her cost. There is the cost of her rearing to the productive stage, which with incubation, feed, labour, housing, etc., will probably run into 9s. or 10s. Now, will she lay a sufficient number of eggs as against those laid by the yearlings to compensate for this outlay? With a well-culled flock I hardly think she would; of course, I know that there must be replacements each year, the question we have to consider is to what extent they should take place.

C. R. (Middlesbrough). There is nothing on the market which will answer your purpose to my knowledge, you desire to trap-nest your breeding pen so as to be able to locate the egg of each individual

bird so that you can follow the progeny of each mating, and can only attend to your stock night and morning. I am sorry but I cannot help you.

H. H. (Romiley). If the mash to which you refer was given by weight, the bulk would be too great; it is not possible to give a mash satisfactorily which contains such a lot of green vegetable matter. Yes, if you fill a measure of a certain size call it one part by measure and so mix the different ingredients. (4) I have explained the use of cod liver oil and dried yeast several times in "Eggs," the former is rich in the Fat Soluble "A" vitamine, and is useful in preventing rickets and assisting growth; the dried yeast has a high protein content of good value, it is also a good tonic and an appetiser, the mineral salts is also good. (5) The mash, as you say, is given to the age of one month and eight weeks; you want to know what grain to feed with it, the best would be 1 part cracked wheat, 2 parts of the flaked cereals broken small, and 2 parts split groats. After the first four weeks they should have whole groats, and at eight weeks whole wheat. The 10 per cent. animal food should be given at five months old.

H. S. M. (Horndean). For both eggs and table birds Leghorn males to Wyandotte hens would be better than the reverse cross. You would get bigger birds than if you used a Wyandotte male with Leghorn hens, they will be less broody and better layers. (2) I cannot tell you of any way to prevent the two cockerels from fighting. (3) You could only get these prices if you bought in 4 ton lots.

Sussex (Horeham). It would depend on the nature of the vegetables you use with your other ingredients as to whether your mash is right or not; if these consist of the peelings and green vegetables and did not exceed 20 per cent. of the whole it would be a very good mash, but it should not include potatoes, the root vegetables are much better given raw (I am not referring to potatoes here). Thanks for your appreciation of "Eggs."

R. M. (Cranleigh). The sample of feed oatmeal you send is not a good one, it contains far too much husk; you must be very careful in buying this. Your dry mash from the ingredients you give could be: 2 lbs. Bran, 4 Crammings, 1 Feed Oatmeal, 1 Maize Meal, 1 Fish Meal, with equal parts Kibbled Maize, Oats and Wheat as the grain feed.

H. O. E. (Sheerness). As far as I can say this seems to be a fair sample of mash, but there appears to be a superfluity of husk. I could advise you a great deal better if you were to tell me the constituents. I am glad you have found "Eggs" so useful.

G. C. (South Woodford). I am pleased you spent such an interesting time at our stand at the Dairy Show. I expect the birds you purchased in July, and which started to lay on the 28th of the month are now moulting, and you must not expect to get many eggs from them until after Christmas. Your other birds are all too late hatched to be laying yet. If you want

bition Classes at shows. I consider they are a very welcome institution, and I find them most interesting and instructive, and so do most people who attend shows, judging by the crowd round the utility pens.

Yours truly,

LESLIE G. M. WHITLEY, Capt.

Corfe Mullen, Wimborne.

Our correspondent should remember that the term "pullets" is very loosely used. Obviously the production in the pullet year was meant. Does not the wise business man care for the future rather than the fashion?—(Editor).

#### UTILITY SHOWS AND MR. G. W. THOMPSON'S LETTER.

To the Editor of "Eggs."

Dear Sir,—As a poultry farmer who has done a little showing with utility poultry with considerable success, I would be pleased if I might be allowed to express my opinion on Utility Shows.

To take Mr. G. W. Thompson's letter, which appeared in last week's "Eggs," first of all, I may be a bit stupid, but I do not quite understand Mr. Thompson. Does Mr. Thompson consider poultry keepers who advertise their success at Utility Shows, to be impudent charlatans. If Mr. Thompson says they are, surely he is offering utility exhibitors, including myself, a very serious insult. I would like to know exactly what he means. Mr. Thompson also writes about the sound arguments, which persons who really understand, can advance against Utility Shows. He seems to forget that there are plenty of other people also understand just as well, who are in favour of Utility Shows. My own opinion is that the whole matter rests with the utility judge. Few utility judges seem to think alike; one judge will give prizes to any sort of bird as long as it looks a layer; another judge will take type, breed characteristics, etc., into consideration, and will favour the good breeder type of birds, rather than the sprinter. There are a few judges who work on a certain system. Their names, of course, I cannot mention, but they always seem to be able to fish out the best birds with extraordinary consistency. I have sent out birds of my own under these judges, birds with both good and bad trap-nest records. The good ones were successful, the bad ones always came back careless, although they handled well, and looked every bit as good as the good ones.

Under other judges I have had the above results reversed, good birds being left out, while the bad ones were successful.

It seems to me that if we had utility standards drawn up by our best men (practical ones), we should not have many cases like the above, and like the 26-egg Sussex pullet Mr. Thompson wrote about.

A lot of harm is done at small shows when there are one or two classes for "likeliest layers," or utility any variety. These small shows are nearly always judged by an exhibition judge, who often does not pretend to know anything about utility poultry, and gives the prizes to the best looking birds. At a show not far from here the judge handled every exhibition bird, but did not touch a single bird in the two utility classes. One hears a lot of complaints about exhibi-

tion birds winning in utility classes. The explanation in most cases is not far to seek. Very many exhibition breeds of poultry lay just as well as the utility birds of the same variety, while many utility birds are absolutely devoid of the type and breed characteristics. When a judge gets a utility class, and finds a bird of exhibition type handling as well as the others, well shown and nice to look at, he is quite justified in placing it above the utility birds in the class which are often devoid of type and beauty and badly shown. There does not seem to be much doubt that Utility Shows have come to stay, and are growing in popularity, whether they are any good or not. If this is the case, it is up to all progressive poultry-keepers to try and make them of real value, and not to simply ridicule and find fault. As I am not out for a cheap advertisement of my successes on Utility Shows, I will sign myself

A BELIEVER IN BEAUTY WITH UTILITY.

#### HENS v. PULLETS.

To the Editor of "Eggs."

Dear Sir,—In your "editorial" of November 15th you inquire for data on the comparative egg-laying values of hens and pullets.

The same question constantly occurred to me during my recent visit to several of the American Research Stations, and there is some careful investigation on the subject to report.

The Maryland State Experiment Station Bulletin 157 deals with a flock of about 60 birds, whose individual performances were kept for three years. The average works out about 172 1st (pullet) year, 149 2nd year, and 115 third year, a very mediocre performance all through. Of course, certain individuals gave a higher production during the second year than in the first year. Generally, however, the decrease is about 13 per cent. the second year, and 32 per cent. the third year.

Similar results have been obtained from the Storm Station and from the Utah State Station, where the writers conclude (Bull. 149) that "individuals making an exceedingly high record one year very rarely hold their place the second or third year."

At the Purdue University such data has been collected on several occasions. With Leghorns the proportion of production of hens to pullets is 1:1.75. With Plymouth Rocks 1:1.25.

Mere figures, however, on such a subject are of little value unless we know the conditions under which the birds have been kept. Prof. Rice, at Cornwall University, has shown ("Cornwall Countryman," March 1913) that the heavy layers in point of annual production were the early layers, are those pullets maturing quickly. This last observation has, to my mind, as much to do with diet as with other factors, even including culling.

Culling is of the highest importance, if done on a systematic basis, but I am afraid I have seen a good deal of erratic culling.

The Poultry Keeper should know his birds and of their performance just as well as the Dairyman knows his cows. I am, yours truly,

J. LEWIS ROSEDALE

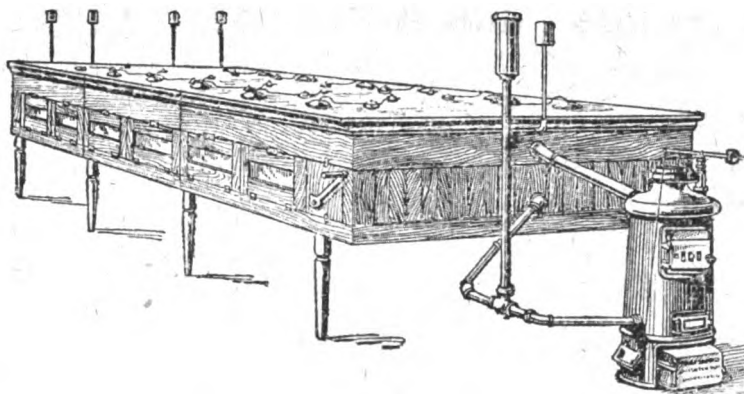


# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than instal one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, instal a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the Incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the Incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

# Cerema

MARMITE

### Vitamin Poultry Food

Sent direct to Poultry Farmers. In view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

### Better Birds —more Eggs

THIS preparation contains the important B. Vitamin so essential for the health of Birds. Birds having too little B Vitamin often go off their legs. Cerema M. helps to prevent this. Egg-laying is improved by addition of this vitamin to the food. Those who feed dry mash may give Cerema M. as a drink (1½ oz. to 1 quart water) to the Birds in the morning. Those who feed wet mash may incorporate a rather stronger solution in the mixture. Birds will take it eagerly. It increases their resistance to disease and assists digestion. Cerema M. can take the place of green food.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

# THE PREDOMINANT FACTOR in POULTRY FOODS is QUALITY and PRICE—We ask you to JUDGE for YOURSELVES.

**Our Foods contain both Cod Liver Oil and Dried Yeast.**

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ... ..	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ... ..	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ... ..	17 6	Poultry Mixture ... ..	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ... ..	20 6	Poultry Oats (Clipped) ... ..	17 6
Alfalfa Meal ... ..	22 0	Kibbled Maize (Screened) ... ..	14 6
Green Clover Meal ... ..	18 0	Rearall 1st Chick Feed ... ..	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ... ..	21 0	Thryvon 2nd Chick Feed ... ..	22 0
Meat Meal (65 per cent. Alb. and Fat.) ... ..	23 0	Matua Chicken Mixture ... ..	28 0
Chick Rearing Meal (Special, impregnated with 12 per cent. Cod Liver Oil (no milk required) ... ..	23 0	Yeast ... ..	19 0
			28 0

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

WRITE TO US FOR A STUDY IN  
**VITAMINES**  
And their relation to SUCCESSFUL  
POULTRY KEEPING.

Post Free.

**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

KEEP IN TOUCH WITH ALTERATIONS /  
IN PRICES.

**GENUINE  
SUSSEX GROUND OATS.  
STONE GROUND in SUSSEX.**

	per owt.	s. d.
Dried Skimmed Milk ... ..	24 0	0
Sussex Ground Oats ... ..	16 0	0
Maize Meal ... ..	12 0	0
Maize Gluten Feed ... ..	12 0	0
Pea Meal ... ..	16 0	0
Bean Meal ... ..	16 0	0
Meat Meal (Fine Ground) ... ..	22 6	0
Fish Meal (Best White) ... ..	23 6	0
Biscuit Meal (Fine) ... ..	22 6	0
Clover Meal ... ..	17 0	0
Broad Bran ... ..	12 0	0
Middlings (Best Fine White) ... ..	13 0	0
Middlings (English) ... ..	12 0	0
Feed Wheat (Best English) ... ..	14 0	0
Feed Oats (Best English) ... ..	15 0	0
Kibbled Maize (Sifted) ... ..	12 0	0
Flint Grit ... ..	5 0	0
Limestone Grit ... ..	5 0	0
Oyster Shell ... ..	8 0	0
Cockle Shell ... ..	6 0	0
Roll'd Wheat (for Chicks) ... ..	15 0	0
Dried Yeast ... ..	19 0	0
Pinhead Oatmeal ... ..	24 0	0
Whole Oat Groats ... ..	24 0	0
Broken Rice ... ..	16 0	0
*No. 1 Chick Feed ... ..	22 0	0
Mash for Laying Hens ... ..	15 0	0

(Both the latter are Mr. Tom Newman's Recipes.)

Carriage Forward.

**5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.**

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,  
Britannia Mills,  
HEATHFIELD, SUSSEX.**

## CHAMPION POULTRY FOODS

We shall be pleased to see old  
and new friends at our

**STAND No. 85  
GRAND INTERNATIONAL SHOW,  
OLYMPIA,**

December 9th to 12th.

A full range of Samples will be  
on view, and our Representa-  
tives will be pleased to answer  
enquiries and offer advice.

**Samples and Price Lists free  
on application to:—**

**Wm. BRINKLER & SONS, Ltd.,**

Poultry Food Dept.,  
**5, OLAPHAM GRANARIES,  
LONDON, S.W. 4.**

Telephone: Battersea 211.

## REDUCED PRICES.

**CLARK'S  
PURE SUSSEX  
GROUND OATS.**

**GUARANTEED.**

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags ... ..	2 1
12lb. Bags ... ..	3 1
28lb. Bags ... ..	7 6
56lb. Bags ... ..	12 0

**PRICES PER OWT.**

	s. d.
1 owt. ... ..	25 0
3 owt. ... ..	24 1
6 owt. ... ..	23 1

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

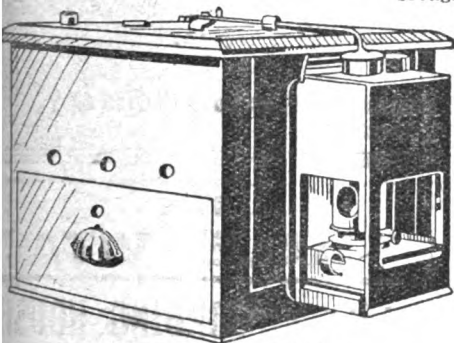
**W. H. S. CLARK & Co., Ltd.,  
56, HIGH STREET,  
LEWES, SUSSEX.**

# Duck Hatching Extraordinary

From the C.A.S.H. SAFE INCUBATOR (Protected No. 23831).

RECENTLY (not being a Duck Breeder) PURCHASED RUNNER DUCK EGGS OVER 100 HUNDRED MILES AWAY, and after testing HATCHED 78 and 90 per cent., and at this time of the year.

TWO DUCKLINGS ONLY were helped out, out of most machines you have to help out 50 per cent. This machine caused a great sensation at the late Dairy Show, and some of our largest breeders pronounced it to be the most natural ever brought out. Why pay High Prices for Inferior Machines.



SHOWING EXTERIOR.

## Hot Water Tank Incubator,

MADE BY  
BEST TINSMITHS IN THE COUNTRY.

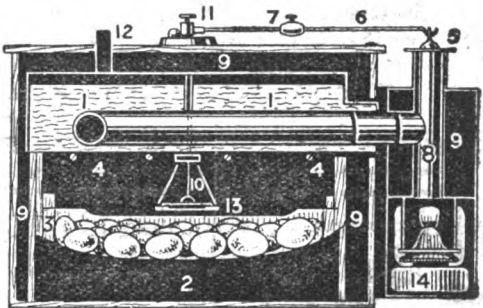
50 Hen Eggs £3 7s. 6d.; 25 Size, £2 10s. 0d.  
Carriage Paid.

### A CLIENT WRITES:—

"I selected your Safe Incubator, not on account of the low price, but because the principle appeals to me, and, theoretically, I consider it BEATS ALL I HAVE EVER HEARD OF."

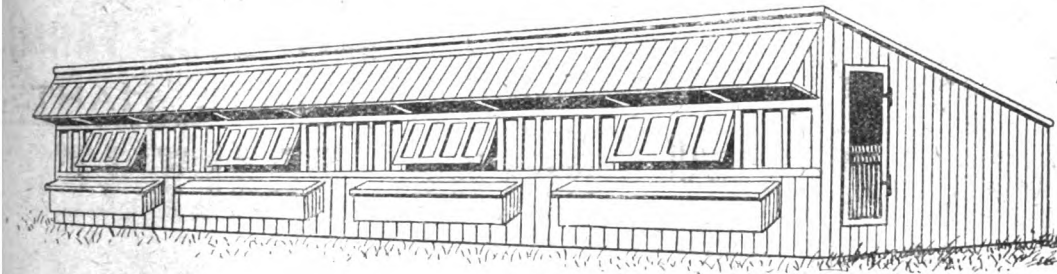
Come and see it at the  
OLYMPIA SHOW.

THIS MACHINE WILL BE ON SHOW AT THE OLYMPIA, STANDS 152, 153, and 110, DECEMBER 9th, 11th, and 12th.



SHOWING INTERIOR.

## THE "POPULAR" LAYING HOUSE.



### REDUCTIONS IN PRICES

But everything included as before.

1923 List Post Free

No.	Long.	Wide.	High.	£ s. d.	Floor.	£ s. d.
1.	6ft.	10ft.	7ft.	14 5 0	3 6 6	
2.	10ft.	10ft.	7ft.	19 4 9	4 10 3	
3.	16ft.	10ft.	7ft.	27 1 6	7 12 0	
4.	20ft.	16ft.	7ft.	42 5 6	14 9 0	
5.	30ft.	16ft.	7ft.	62 3 6	20 3 9	
6.	40ft., as illustrated			82 3 6	26 2 6	

Mr. Venner is a breeder of White Wyandottes.

Extras Included.  
Penetrating  
Sleepers, Water  
Fountains, Mash  
Hoppers, 2-ply Felt  
on roof, Dropping  
Boards, Perches,  
Bolts, Locks, Glass,  
etc., etc.

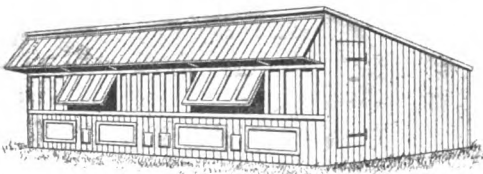
P. H. VENNER, Esq., Shottendane, Margate, writes:—

"The houses have arrived. I am well pleased with the construction, material and work put into them. They are a credit to you and your workmen. I shall have no fear or hesitation in recommending your poultry houses and appliances."

## THE "POPULAR" BROODING HOUSE.

shall have a 10 x 10 Brooding House also on Show, fitted up with hovers and also convertible to a Colony House. This house takes two large hovers.

The Popular Brooding House has been specially constructed to take four of my World-Renowned Pioneer Sanitary Hovers. It is 16ft. long, 10ft. wide, 7ft. high in front, 11ft. at back, made of best 3in. T. G. and joint matching, on 2 x 2 planed inside framing, 2 x 3 roof bearers where required. Floor is also constructed of 3in. matching on 2 x 2 joists, and four rows of 2 x 3 penetrated sleepers provided for erecting the house on.



Three 4ft. hurdles for dividing Hovers, boarded up 12in. balance, 1in. wire netting. Glass panels at bottom of front, as shown in illustration, also at back. The outer doors are hung on special heavy pivot hinges, the whole coated with my preservative penetras, and roof felted with best 2-ply bitumen felt. Canvas shutters to drop over top ventilator inside under hood.

### THE "POPULAR" BROODING HOUSE.

PRICE OF HOUSE, COMPLETE AS ABOVE, £34 13s. 6d.; FOUR HOVERS, £2 9s. 0d. each; 100 to 150 Chick Size.

ON STAND No. 110 I shall have a Special Line of Poultry Account and Record Books, Samples of Incubator Record Cards, etc. On all stands will be exhibited my Noted Pioneer Hovers, C.A.S.H. Safe Incubator, Dry Mash Hoppers, etc., etc.

My 12ft. x 6ft. FAVOURITE House will be on view on Stand 152.

1923 LIST POST FREE.

C. A. SYDENHAM HANNAFORD, M.S.P.B.A., Late Manager to Randolph Meech,  
HAMWORTHY JUNCTION, DORSET, ENGLAND.

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 21/-;  $\frac{1}{2}$ -cwt. parcels, 13/-;  $\frac{1}{4}$ -cwt. parcels, 7/-

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

**GUARANTEE** 56% ALBUMINOIDS.  
20% PHOSPHATES of Lime  
4% OIL (Maximum).  
3.5% SALT (Maximum).

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulas, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

THE

"DALE - VITA"

DUCK RECORDING HORN

The Result of Experience

Tested & Proved Perfect

Full Particulars:—

DALE DUCK FARM

DIBDEN, HANTS.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEGS

AND ALL POULTRY DISEASES.

Mr. Cecil L. Byrne,

Gives instructions relative to the Prevention and Cure of Diseases, in his Book

"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

FLUID **IZAL** POWDER  
DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.

A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

IZAL FLUID.

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 56 lb. Bag.

At all Chemists.

NEWTON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.



## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

To the Editor of "Eggs."

Dear Mr. Newman,—Permit me to offer the Scientific Poultry Breeders' Association my warmest congratulations upon having reached the sum of £1,000 in contributions for the National Poultry Institute and Research Station. This is a further proof of your Society's progressive spirit and realisation of the important place which Education, Experimental Work and Research must hold in connection with our own branch of animal husbandry, wherein by the greater opportunities and the methods which are necessarily adopted, has special problems of its own to meet.

I am anxious to do something to help in the completion of your share of the Fund. Having given in various ways as much money as I can afford, another proposal has suggested itself to me, namely, that I have a few copies left of my various reports on the Poultry Industry in different countries. These include the following:—

Report on the Poultry Industry in America (1906).

Report on Poultry Industry in Denmark and Sweden (1907).

Report on the Poultry Industry in Belgium (1910).

Report on the Poultry Industry in Germany (1912).

Report on the Poultry Industry in Wales (1915).

Report on the Poultry Industry in the Netherlands (1921).

In addition, there are a few copies remaining of the Report of the Second Conference held at Reading in 1907.

Of the above, I can make out sixteen complete sets. If any of your Members would like these, and will contribute one guinea to the National Poultry Institute Fund, I shall be pleased to send a set, and if it is desired will append my signature as the author on the title page of each of the National Reports.

Should you accept this offer, those who desire to respond should send their guineas and order to you, and if you will let me know, they will be forwarded accordingly.

Yours sincerely,

EDWARD BROWN, Hon. Sec.

21st November, 1922.

## THE MARKING OF FOREIGN EGGS.

Is it a Cure for Low-priced English Produce.

By A. C. C. S.

I have perused with interest and gratification the letters which several of your correspondents have been so kind to write, in response to my article of September 27th last. Despite the admirable candour of most of their remarks, I observe with regret that instead of according the matter serious deliberation they have almost all, rushed headlong into personalities. A controversy which develops thus is of no value as far as the subject under consideration is concerned, and it certainly does not penetrate far below the surface.

I now find, Mr. Editor, that an apology is due from me for having requested you to allow me the valuable space in "Eggs" for my views, seeing that they were so far apart from the actual facts and real objects which the advocates of marking have in view. It is surprising (and absurd) to learn that the object of Marking is to protect the public. Such honesty of purpose is too transparent to be accepted by any rational individual. Above all things let us be honest with ourselves. I had in my mind Hampshire's remark in the Editorial of August 23rd last, and I repeat what he says—The matter should be *fully aired* . . . instead of *disguising facts* . . . and see if we could not cope in some degree with the situation.

Perhaps at this juncture I should admit that I was out for information; and I certainly got it—but not the information desired. My efforts were directed in searching for a means to cope with the situation. If I could introduce a system whereby eggs could be sold at a lower rate than your foreign competitors—would the "Markers" still persist in their efforts to safeguard the public. (I am looking for the avenue which leads to this paradise).

I do not doubt that our friend, Mr. Ancliffe, can do anything but agree that the whole affair is an absurd farce, when we NOW review the correspondence on "The Present Position" and "Marking Foreign Eggs," which has been published.

As far as I am able to judge the controversy arose as the result of the low prices English eggs were fetching, and we have had:—

(a) Those who seek to improve their lot by having Foreign Eggs marked this they contend will give us a higher return for the low-priced home products. There will be a shortage of "English" Supplies, they say, owing to the fact that it will be obviously impossible to sell Foreign marked eggs as English. The very natural result will be a rise in prices—the ideal, I suppose, but what about the Public you are safeguarding? Having reached this stage, their condition will no longer interest you.

(b) Those who are purely and simply out to protect the purchaser, i.e., that an imported egg is not sold as English.

(c) Those who proclaim that (b) is what they commenced business for, whilst (a) is secondary (on paper).

The majority of my critics have all, with one or two exceptions, been relegated to (c). They are, too Communitistic for me, as I understand the term, and there is not an atom of truth in what they say. It is a pity they chose the columns of "Eggs" for such unreliable assertions. Actually they belong to another designation (d), and seek to interfere with the activities of those who they should try and interest—the shop-keepers they (the shop-keepers) occupy their positions by force of circumstances, and whether they sell an English or a Foreign Egg concerns them not.

I readily do admit that it is unfortunately *bad business* that permits imported eggs being taken to "English" Poultry Farms and distributed as produce created on these farms. But are the numbers that reach these farms so very tremendous.

My views are that as a result of the importations our English Egg Farmers are unable to obtain the high

prices of the war period. I further hold that with every imported egg duly marked, the importations will not cease to any appreciable extent, although the public will know that the foreign egg is *foreign*—and as far as it is able to judge (being good) as good a food as any other.

Like Mr. Hanson, I did spend a few years abroad prior to the war, but not in the countries he mentions, and I have known £15 to be sufficient to pay 35 men a week's wages—and eggs at 6d. a dozen retail. I have every reason to believe these eggs were imported into England, and are still being and will be imported, mark or no mark, as long as the price is favourable.

"Oxon's" views are both instructive and helpful, and all would do well to carefully peruse paragraph 3 of his letter. As regards the co-operation he refers to, a concern which permits stale eggs to find a place, should deservedly fail. Perhaps he will tell us more of this. Co-operative Food Supplies. Surely this is wisdom, and I heartily endorse his contention in this matter.

I have recently inspected an account of the activities of a society formed for the benefit of "back-yarders," and the results are truly remarkable. Owing to the smallness of the quantities handled, it seems hard to believe that the society has been able to repay Capital and pay a periodical dividend. Formed on a large scale for Farmers, I consider it a certain means of effecting economy with better returns. In addition to food buying, the purchase as far as the individual thinks fit of everything appertaining to the industry, could be by means of co-operation.

As usual, the honour of providing real assistance and valuable criticism devolves on Mr. Newman. It is encouraging to think that one may be assured of receiving an unbiassed opinion from him.

I hasten to point out I do NOT consider that marking will result in greatly reduced demands for foreign eggs, and whatever the reductions are that follow, marking will not cause the demand for home produce to reach a stage whereby a better price may be obtained.

Mr. Newman does well to quote the late Minister of Agriculture. There is no doubt that the *middleman* is the absorbing person—it is he who should be removed, and he *can be done without*.

I heartily endorse your three points, Mr. Editor (in "Eggs" of the 11th October, 1922), and those interested in this subject would, in my opinion, do well to look these up.

My views are: The only hope of English Egg Producers lie in Co-operation. It is by these principles that Denmark is able to undersell us. It has been said, and it is quite true, no nation can compare with us as far as stock, breeding and general management are concerned, but why should we remain dormant, and allow these advantages to be nullified by the principles of Co-operation. Surely the obvious thing to do is to support the British Egg Producers, Ltd., in order that the principles on which this society is conducted may be extended to the great towns without delay.

P.S.—Announcements in the Press seem to indicate that Farmers are to be handsomely treated by the new Conservative Government. It seems the 1908 pledges of Earl (then Mr.) Balfour are to be given effect to after all.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Mr. Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarence Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. 6d. per reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 6s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

A. W. (Borrowash). (1) For egg production I would not advise you to consider Felch's chart. The original male and female would be best if they were hen and cockerel. (2) I do not think the cockerel has much influence on the size of egg. (3) In breeding for laying test winners, the size of egg is hardly the determining factor, but if you have pullets laying round about 200 eggs, averaging seven to the pound, I should breed from them. (4) A half-gallon fountain would be large enough. (5) Select the cockerel that matures most quickly, not the biggest, but the one who grows earliest and oftenest, and feathers best, and whose comb and wattles develop earliest. You will find these birds are generally the "Bosses," and best breeders. (6) If the bird you intend sending to the laying test begins laying three weeks before the test begins, you must not "throw her off her lay," for that will throw her into a moult. If you cannot substitute another bird, the best thing to do will be to give her an extra feed.

E. K. R. (Isfield). Members of the S.P.B.A. are entitled to an answer by post, but unless it is urgent it helps me considerably if they will allow the reply to appear in "Eggs." You did not send a sample of Alfalfa, but at the price you mention it is a fair one. The No. 1 sample of Clover is fair. It has been harvested rather late, but there is a good percentage of leaf; at 21s., I consider it uneconomic. The No. 2 sample is not Clover, but Chaff waste. The Oats at £11 per ton are the better value. The Fish Meal at £15 per ton is low grade. That at £17 10s. is the better value. (2) Dried milk can wholly replace the Fish Meal in the mash, but I should prefer to use 1½ lbs. against a pound of Fish Meal. (3) Allow the birds to peck the swedes freely; you cannot feed them by weight. (4) If your pullets only get the hour's extra lighting, it will not affect them as breeders in 1923.

he cheaper incubator has only recently been put on the market. Until it has been fairly tested, I would not like to express an opinion.

R. B. M. (Hawkhurst). The samples you send are all of good quality and value, except the clover meal, which is poor stuff.

E. E. (Haslemere) The Indian Game male with the Rhode Island hens would give you an excellent table bird, with plenty of meat on the breast, but such a cross would be more suitable for the latter part of the year, when a bigger bird is required. For the spring and early Summer, I should prefer a Houdan male.

Beginner (C. A. C. S.) There is no reason why you should not feed your chicks on the No. 3 dietary that I am aware of. I have given in "Eggs" the fullest particulars of these experiments. It would be necessary to use the M. in solution; you could not possibly mix the one ounce satisfactorily with 7lbs. of food in a dry form. You should feed the mash four times a day or the 1st six weeks. By green food, "ad lib." I mean as much as they like. It may consist of grass, cress, rape, lettuce, onion tops, or any available green food. If you read the article carefully again, you will see that the carbonate of lime, bone ash, and salt were not used in this experiment. The birds had the food as described, and nothing else. This was given up to 16 weeks. The only assurance I can give you that the feeding is practicable is the result of the experiments.

J. (Llanfairfechan). The following would be a good wet mash from the ingredients you give. The parts are by measure: Two Bran, four Midds., one Gluten Feed, one S.G.O., half Fish Meal. The mash would not be so satisfactory if the Ground Oats were omitted. The Bran should be used to dry off the mash with, and should not be scalded.

E. L. (Wimborne). The sample of feed oatmeal is a good one, but it is very dear at 16s. per cwt. The clover is a fair sample, and cheap at the price. The protein content of your mash is too high. It would be much better if you were to use another 2lbs. of Feed Oatmeal. I am glad you enjoyed the meeting at Bournemouth, and think we are giving our members all value for their money.

Novice (Accrington). The pullets have black spots on their combs, because the feeding is altogether wrong. Make your dry mash as follows, the parts are by weight: One Bran, two Middlings, half Maize Meal, half S. G. Oats, half Fish or Meat Meal. This should be before them all day, and supply them with as much fresh green food as you can.

Recruit (Charter Ley). It would be advisable to replace 20 per cent. Ground Oats with Maize Meal, and add another 5 per cent. Fish Meal. You must be very careful with Clover Meal, as there is so much rubbish offered, in fact as your ducks are on grass runs, I should omit it altogether, and, if possible, give them cooked cabbage twice a week in place of the bran.

W. S. P. (Tarporley). It is very difficult to suggest a reason for the failure of your hatching last season, as you followed maker's instruction, I should be inclined to think the machine was at fault, especially as you have such a high percentage of broken yolks. Before starting again. I should have thermometer tested, and then test the temperature in different parts of the egg drawer. (2) You ask why the hot-air machine, was so much worse than the tank, I cannot say definitely. You can follow suggestions given above. (3) Next season try running the hot-air machine at 105 degrees the first week, 104 the second, 103 the third. Keep both felts in until the 20th day, and then remove only one. Do not put moisture in the incubator, but keep the floor of the stable wet. Try and keep the incubator room at as near 55 degrees Fahr. as possible.

S. F. C. (Merton). Wet mashes for both breeders and layers were given in the October 18th issue of "Eggs." The following will answer for breeders:—1lb. Bran, 1 Alfalfa, 4 Middlings, 1 Sussex Ground Oats, 1 Maize Germ Meal, half Dried Yeast, half Fish or Meat Meal. For layers replace the Germ Meal with Gluten Feed or Pea Meal.

Terms (Newcastle). "Beefy" combs means one which is large, coarse, or overgrown. "Dominant," characters which appear in the first hybrid generation, when each individual bears one of the two characters of a pair. Rose comb is dominant to single comb. "Mealiness," in buff coloured fowls, when the plumage, instead of being an even coloured shade throughout, is speckled with white, a bird is described as "Mealy." "Recessive" are those characters which disappear in the first hybrid generation. If a pure single comb is mated to a pure Rosecomb, the single comb disappears in the first cross. It is recessive, and the rosecomb dominant. I will answer the others when you send them.

## POST-MORTEMS.

Mrs. Harvey.—Please note the address to which parcels should be sent, and also that birds should be packed securely in such a way that they will remain inside the paper. When a bird has "something the matter with her throat," it is not advisable to kill her by dislocating the neck. It would be best to send her alive. But if that be impossible from Ireland, then she should be killed in some way which will not interfere with the appearance of the neck. Why did you think there was something the matter with her throat? Was it because she was hoarse? She seemed to have congestion with the upper part of the windpipe (something like laryngitis) and an enlarged gland. This was probably from a chill. Internally she was healthy, except that her liver was too pale.

J. Bald.—Please see answer to Mrs. Harvey about packing and addressing birds. Do you think your cock could have got at any poison? His intestines, gullet, crop and windpipe were very red and congested, and

there were two red spots inside the gizzard. There was also congestion of the lungs, kidneys, liver and spleen. It is possible that a severe chill might have been the cause, but the parts looked more as if poison or salt had been eaten.

W. Turrell.—Your bird had congestion of lungs and kidneys, probably due to a chill. There was no disease in the organs, as it has been sickly ever since you bought it. It may have taken cold on the way.

J. E. C., Staffs.—Your bird had peritonitis, due to having ruptured a yolk sac internally, and also congestion of the lungs. She may have had a chill. There was no disease of the organs.

Cordwall.—Your bird had congestion of the kidneys and lungs. She had probably had an internal chill. In similar cases, I advise that the bird should be kept warm (e.g., in a basket by the fire), and fed on bread and milk only.

D. and C.—There was much congestion of the lower part of the intestine and oviduct, and slight haemorrhage from the vent. There was excess of kidney matter being passed, probably because your percentage of Fish Meal is too high. You should add another 2lbs. of bran to the mash. I don't think there was anything infectious. The bird may have had a chill, but I think the feeding has had something to do with her illness.

C. J., Sutton Coldfield.—Your bird had cancer of the intestine. The tumour blocked the cavity, and prevented the food from passing down. It is impossible to say whether the diseases commenced; but I think it must have been growing for some time. I advise you to handle the other birds of the same lot, and to locate, as suspicious cases, any which are getting thin.

J. Furrell.—Your bird had advanced tuberculosis of liver and spleen. I am afraid there is no cure for this. As you have lost others, it is probable that the disease is in the flock. All you can do is to disinfect houses and land, and to put a disinfectant into the drinking water. You should handle your birds frequently, and isolate any that are getting thin, as they probably have the disease. Please see the right address in "Eggs."

## Market Report

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, NOVEMBER 24th, 1922.

GRAIN AND FEEDING STUFFS.—Home-grown wheat is in fair supply, and prices are about maintained, milling qualities averaging about 45s. per 504 lbs. Imported wheat continues scarce on spot and prices are inclined to advance, although demand is not active. Malting barley is in decidedly less request and prices are lower, and feeding descriptions are also easier. Imported barley meets a quiet trade at slightly lower figures. English oats are cheaper at Hull and London, and imported oats are also easier in some cases, but Argentine maize has recovered part of last week's fall, averaging about 39s. 6d. per 480 lbs.

Bran remains scarce and prices are fully maintained, and middlings sell at late rates except at Liverpool where a slight decline is recorded.

MILLERS' OFFALS.—Bran (British): Hull, £7 7s.; Liverpool, £7; London, £7. Broad Bran: Hull, £8 17s.; London,

£7 17s. Fine Middlings (Imported): Liverpool, £9; London, £9 12s. Coarse Middlings (British): Bristol, £9 15s.; Hull, £8 12s.; Liverpool, £8 5s.; London, £8 15s. Pollards (Imported): Bristol, £7 15s.; Liverpool, £6 15s.; London, £7 7s. Rice Bran: Bristol, £8 5s.; Liverpool, £7 15s. MEAL.—Barley Meal: Bristol, £10 10s.; Hull, £10 5s.; London, £11. Maize Meal: Bristol, £11 2s.; Hull, £10 5s.; Liverpool, £10 5s.; London, £10 10s. Maize Germ Meal: Bristol, £11; Hull, £10; London, £10 10s. Maize Gluten Feed: London £9 10s.

### EGGS AND DEAD POULTRY.

Eggs remain in moderate supply and prices are well maintained for practically all descriptions. Poultry is also firm, chickens and ducklings selling at rather higher figures in London. Week-end prices, eggs per 120: English New Laid, 37s., 39s.; Irish, 30s., 32s.; Danish, 31s., 35s.; Dutch All Brown, 34s., 38s.; French, 28s., 32s.; Italian, 23s., 28s.; American, 16s., 18s.; S. African, 17s., 22s.; Moroccan, 13s., 14s.; Polish, 15s., 16s. Dead Poultry (London): Surrey Fowls, 1s. 6d., 1s. 9d.; Irish, 1s. 4d., 1s. 1d.; Others, 1s. 2d., 1s. 6d. Ducks, 1s. 2d., 1s. 5d.; Geese, 1s., 1s. 3d.; Turkeys, 1s. 4s. 8d.

### EGGS.

Per Doz.—Ashford: First, 3s. 9d.; Second, 3s. 7d. Birmingham: First, 3s. 8½d.; Second, 3s. 6d. Carlisle: First, 4s. 6d. Chelmsford: First, 4s. 0d.; Second, 3s. 10d. Denbigh: First, 4s. 0d.; Second, 3s. 10d. Derby: First, 3s. 10d. Dorchester: First, 3s. 2d. Exeter: First, 4s. 0d. Hereford: First, 3s. 6d. Hull: First, 3s. 6d. Ipswich: First, 4s. 0d.; Second, 3s. 9d. Kings Lynn: First, 3s. 9d.; Second, 3s. 3d. Lincoln: First, 3s. 9d. Llandilo: First, 3s. 9d.; Second, 3s. 6d. Montgomery: First, 3s. 6d. Newport (Mon.): First, 4s. 3d. Norwich: First, 3s. 6d. Oswestry: First, 3s. 9d. Penzance: First, 3s. 6d.; Second, 3s. 3d. Salisbury: First, 3s. 2d.; Second, 3s. 1d. Shrewsbury: First, 4s. 3d.; Second, 4s. 0d. Skipton: First, 4s. 0d. Taunton: First, 3s. 9d. Truro: First, 3s. 4d. York: First, 4s. 0d.

### FOWLS.

Per lb.—Birmingham: First, 1s. 2d.; Second, 10d. Derby: First, 4s. 6d.; Second, 2s. 9d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Ipswich: First, 6s. 6d.; Second, 4s. 6d. Lincoln: First, 5s. 0d.; Second, 3s. 6d. Llandilo: First, 1s. 6d.; Second, 1s. 0d. Newport (Mon.): First, 1s. 6d.; Second, 1s. 2d. Norwich: First, 7s. 0d.; Second, 5s. 0d. Shrewsbury: First, 5s. 0d.; Second, 4s. 0d. Truro: First, 1s. 2d. York: First, 5s. 9d.; Second, 4s. 6d.

### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, 5s. 9d.; Second, 4s. 9d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Llandilo: First, 1s. 6d.; Second, 1s. 2d. Newport (Mon.): First, 1s. 5d. Norwich: First, 6s. 7d.; Second, 4s. 9d. Shrewsbury: First, 6s. 0d.; Second, 5s. 0d. York: First, 7s. 6d.; Second, 7s. 0d.

\* Per Head.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### NOTABLE ACHIEVEMENT.

It will be recollected that a short time ago E. J. Brooke, Esq., promised to subscribe £100 to the above Fund if the S.P.B.A. succeeded in raising £1,000, and we have pleasure this week in announcing that as the Institute Fund now totals £1,114 Mr. Brooke has promptly and generously adhered to his promise, and forwarded a cheque for £100, the receipt of which has been duly acknowledged.



## TWENTY-FIFTH LIST.

Carried forward	...	...	£1003	0	4
M. J. Brooke, Esq.	...	...	£100	0	0
				s.	d.
C. H. Cooke	...	...		5	0
J. Marsh	...	...		2	6
A. Dryer (2nd donation)	...	...		2	6
C. A. Henning	...	...		5	0
Miss H. Giles	...	...		2	6
Miss E. J. Clark	...	...		5	0
Mrs. F. L. Kelly	...	...		20	0
P. F. Carberry (discount)	...	...		4	8
Saml. Mason	...	...		20	0
Derbyshire Reader	...	...		100	0
Capt. R. G. Kelly	...	...		8	0
Miss Napier	...	...		20	0
B. M. Stratton	...	...		42	0
Total	...	...	£1114	12	6

Total Subscribed, £4,515 15s. 6d. S.P.B.A. Total.  
£1,114 12s. 6d.

## SOME GENEROUS OFFERS.

We call attention to Mr. Edward Brown's offer published in another column. This should interest our readers, as Mr. Brown's experiences have been unique, and his observations of Poultry Keeping in other lands interesting and instructive.

Mrs. Wyndham Malet, a "Dale-Vita" duck house. An illustration and description appeared on the front cover of our last week's issue. We draw attention to the fact that the house is fitted with the "Vita" trap-nest front, and it has five sections. The price is £5, carriage paid; boarded floor 12s. 6d. extra.

Mr. Sydenham Hannaford offers eight large Pioneer Hovers at £2 10s. each. These hovers are so well-known that it is unnecessary to say anything about them.

A Guildford Reader offers Black Leghorn cockerels, guaranteed to be bred from trap-nested hens with records of 210-240, price 15s. each, 5s. from each bird to go towards the fund.

A Lancashire Reader offers one White Wyandotte cockerel from a pen with records of 230 to 244, March hatched. Sire's dam 103 eggs in two years, non-woody.

One Ancona from a pen with records of 206 to 245, March hatched. Sire's dam 277.

Also eight White Wyandottes and eight Anconas, from same pens as above, price £1 each for the Wyandottes, and 15s. for the Anconas, 2s. 6d. on each bird or the fund.

Mrs. Kelly offers sitting of Khaki-Campbell duck eggs from a pen which averaged 300 eggs each to August 31st.

Miss Hasler. A February hatched Rhode Island Red Cockerel, bred from hen with record of 281, which laid 87 eggs in 92 days from November 7th. She was mated to the son of a 299-egg hen, who was a grandson of Mr. Boucher's 1,000-egg hen.

Mrs. Haslewood offers six White Leghorn cockerels, originally bred from Cam's No. 1 Pen.

Miss Monierieff offers one sitting of duck's eggs. The

drake is direct from Mrs. Ballard, and the dam laid 311 eggs in the year.

Exchequer Leghorn cockerels (14), March hatched, 15s. each; 2s. 6d. from each bird sold to be given to the fund.

Two Exchequer pullets, due to lay end of this month, one light and the other dark.

Seven Rhode Island Red hens, purchased from Mr. Bostock Smith, records 221 to 240, with cock from 270-egg hen. The sum realised above a stipulated amount will be given to the fund.

Mrs. E. Lewes offers four sittings of White Wyandotte eggs, delivery in February, from pen with guaranteed records of over 200, mated to Barron cockerel, from a 245-egg hen.

Miss Harrison-Bell offers two pure-bred Khaki-Campbell drakes, hatched March this year, from pen sisters to her Bentley pen, containing "Madam Sequence," who laid 171 eggs in 171 days, and 240 eggs in 44 weeks.

Major Hall offers a Seymour Shaw Fawn and White Runner drake, April hatched, from a pen which averaged 110 eggs in 120 days, and are still laying well.

## A CHALLENGE.

A Derbyshire Reader, who has subscribed £5, will make it £10 if 200 of our readers will give £5, or 100 will give £10 each, to make another £1,000, so that the total subscribed to the fund by members of the S.P.B.A. shall be £2,000. It is a sporting offer, an ambitious one. The support already given has been most generous. Is his suggestion an impossible one?

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

## SEX-LINKED INHERITANCE.

Very great interest is being taken in the article on Sex-Linked Inheritance, which appeared in our issue of November 8th. I have had a very large number of letters respecting the various crosses mentioned. I can only repeat that in my opinion the most economical of them all is the Light Sussex-Brown Leghorn. But I should be glad if any of our members who intend trying these crosses next season would kindly let me know, and which cross they intend to try, as I have numerous enquiries.

## RED MITE.

Capt. Gibson queries my reply to a correspondent to the effect that it is very seldom that Red Mite are carried about on fowls themselves during the day. He firmly believes the birds do carry them during the day. That has been his experience, and it was by finding a great many on some birds he bought from a neighbouring farmer that the latter developed his house was infected by this pest. He adds:—

"I wish to draw your attention especially to this, as at the Dairy Show I am told that you were asked whether, in your opinion, red mite were or were not carried by the birds, and your reply was in the negative. Some two years ago I

purchased some hot-water brooders, which I placed in some new houses, and soon discovered that the packing of the brooders was a breeding ground for red mite, which, in consequence, spread all over the four new houses in question. I had occasion to place some of the birds from these four houses into another new house, and after some-time found red mite in this house also. I think, by-the-way, that nest boxes are often missed by those endeavouring to rid their houses of red mite, and as it would be unwise to use creosote in nest boxes, especially with trap-nest fronts, I have found a 1 in 10 solution of crude carbolic efficacious. Care should be taken not to spill this solution on the hands."

I do not remember the conversation at the Dairy Show, but then I met a good many people there, and much depends on the form in which the question was put. It is no doubt possible to find red mite on the body of the fowl during the day, but if I were asked if they LIVE there, I should say no. During the day-time the mites collect in cracks, or under the perches, or even in the droppings, and they will attack hens in the nest boxes. When engorged the mite turns red, and drops off the bird. When not engorged they are grey in colour. The grey dust you find at the end of the perches, are not the eggs of the mite, as some people will tell you. They are mites themselves before being engorged. They make their way at night to the birds, and if a few of them do not become engorged before day-break, they will remain on the bird until they are. That explains how Capt. Gibson found them on his birds, and how his new house became infected. Of course, they are blood suckers. It is said that moisture favours their longevity. In the absence of poultry they will live in a poultry house for four or five months. They are not active in cold weather. Crude petroleum is the most effective thing to get rid of them, but I have used Paraffin most successfully, and prefer it to creosote.

#### MOISTURE IN INCUBATOR.

In support of Mr. Searle's letter, comes one from Mr. G. Fox, who writes:—

"I carried out four hatches last season with a "Gloucester" in a first floor room. The machine was placed between the door and window, the latter being slightly open. The first hatch was early March, and no moisture other than water in the trays was used; there was a large percentage of dead-in-shell, and a result of about 48 per cent. only. The following three hatches had water supplied on the 18th day in abundance, by means of a sprayer, the tank of which was filled with hot water. Moisture was then sprayed for about half-a-minute unsparingly, until every egg was coated. The results of these three hatches, which had similar treatment, were 96 per cent., 91 per cent., and 93 per cent. A matter of further importance is the mortality was nil in the case of Leghorns, and something under 10 per cent. in the remainder."

I don't think we take into consideration sufficiently the question of moisture in connection with ventilation of the incubator. We have had a great many discussions on this subject in "Eggs," and the result has

been that we have gained some useful knowledge, but there has been much that I have been unable to publish, and these letters are as a rule from individuals who write to say they have solved the dead-in-shell problem. I do not for a moment suggest that Mr. Fox hints that he has done so. He has only told us what has succeeded in his particular case. I only want to point out that such a method may fail under other conditions, and with another type of incubator. If the machine is not well ventilated, added moisture in a stagnant atmosphere will result in a higher percentage of dead-in-shell. In a well-ventilated machine I do not think there can be an excess of moisture. But as I have said before the temperature of the incubator room should be a fair guide as to whether additional moisture is needed or not.

#### SOME BREEDING PEN.

One of our Gloucestershire members who invested in a breeding pen of White Wyandottes thus reports the result, after calling in an experienced breeder, who advised the return of the birds:—

*Cockerel.* Has a wry tail and his legs are red. Has a poor head and back, and is "brassy."

*Pullets.* Two suffering from scaly leg, and two others inclined that way.

One is partly blind in the left eye.

Two have a tendency to bumble foot.

Only two have anything like a decent head. The others have sunken eyes, and would probably be poor layers. Several have traces of black in feather, and all are inclined to brassiness—one is especially bad. At least two show signs of feathered shanks. I removed an old stubb very low down in one case.

The birds were advertised as absolutely true to type and of good colour. On three days' approval, money returned if not satisfied. That seems fair enough, does it not? But then you see there are always a large percentage of beginners who do not know enough to detect these faults, and are ready to accept any old stuff, so that it comes from an advertiser who advertises continuously and largely. If you can pick up this old stuff at about 7s. 6d. per head, and sell it at from 25s. to 30s. as your "world-renowned egg strain," and are thick-skinned enough not to mind a little bit the nasty things that are said about you by people who know your tricks; well, you can afford to have birds sent back occasionally. From this particular advertiser I was this summer fortunate enough to save one of our members spending nearly £250.

#### LONG TERM HENS.

Major Widdicombe, in his interesting letter refers to Mr. Boucher's 1,000-egg hen, and also the wonderful birds bred by the Misses Ransford. The Rev. A. B. Runnells-Moss has a White Leghorn, originally bred by Dr. Baldwin, which laid 849 eggs in four years, and 158 in the last seven months of her fifth year, making a total of 1,007 eggs in five years, and she is still alive, so that she is likely to add to her record. Now, although I am keenly interested in what Major Widdicombe has written, and I sincerely hope that there will be a ready response to his appeal to our scientific readers, I personally believe that this question of the longer economic life of the hen is rather a

breeder's problem than one of nutrition, or the suggested thyroid gland experiments. Of course, nutrition is found to play its part, and I should very much like to see experiments with thyroid gland, but I believe a great deal more can be done by careful selective breeding. In short, I believe this longevity is an inherited factor, and it is because we have so few breeders who rap-nest beyond the first year, that we have failed to discover more of these "stayers," and build up strains of them.

#### DISCOUNTS.

*Will members please remember that our rules insist that all transactions with firms who give discount must be through the S.P.B.A., and not with the firms direct. There have been many breaches of this rule of late, which has caused much annoyance to the firms in question, who have distinctly laid it down as a condition of their giving the discount that orders should only be received through us. This rule was made with a special object, and it is unfair to the firms and to allow members to break it.*

The following firms have intimated their willingness to give discounts to our members:—

Mr. T. Worthington, 23, Humberstone Gate, Leicester: Poultry Houses, Appliances, and Foodstuffs.

Messrs. Vipan and Headley, Gallowtree Gate, Leicester: The "Wyvern" Chicken Hover, 70 and 100 chick size.

#### ONE FOR US.

I have received the following letter from one of our members. I am sure you will all enjoy the joke:—

"I felt I really must write you, and let you know the latest. As you know, I sent for my badge, and, being the proud recipient, I immediately wore it. The same day I had to go to Birmingham, and while in Ridgeway's cafe was spoken to by a gentleman who said, 'Oh, I am glad to see you are a member of our Association. I then got talking on poultry matters, and very soon found he was at sea, and had evidently got mixed up. On asking him which Association he thought I was a member, he said, 'Oh, the *Starting Price Bookmakers' Association*.' We had a really good laugh, and a very interesting talk."

#### OLYMPIA.

The Grand International Poultry and Pigeon Show to be held at Olympia on Saturday, December 9th, and will continue until the 12th.

#### OUR STAND WILL BE NUMBER 100-102.

We hope to welcome many of our members there. As announced months ago, the Council have decided that the S.P.B.A. Stand will NOT be opened on the Sunday. If any of our members will be good enough to help at the stand we shall be grateful for their assistance, especially in the evening. There are a very large number of entries, and it promises to be a most attractive show.

#### RESEARCH IN SCOTLAND.

Dr. Crew asks me to remind our Scottish readers and members that a meeting of Poultry Breeders will

be held in the Committee Room at the Scottish National Fat Stock Club Show, Industrial Hall, Annendale Street, Edinburgh, on November 30th, at 2.30 p.m. The following questions will be discussed:

(1) The Organisation of Research in Relation to Poultry Breeding in Scotland.

(2) The Institution of a Scottish National Laying Trial.

#### BRIGHTON AND DISTRICT UTILITY POULTRY SOCIETY.

Mr. Douglas Wood will give a paper on "The New Nutrition" at 6 p.m., in the National Schools, Church Street, Brighton, on Saturday, 2nd December. All readers of "Eggs" are invited.

#### KHAKI-CAMPBELL DUCKS.

There will be a meeting of Khaki-Campbell Duck Breeders at 2.30 p.m. on Wednesday, December 6th, the second day of the National Utility Poultry Society's Show, in the Royal Horticultural Society's Hall, Vincent Square, Westminster. It is hoped that a powerful club will be formed to look after the interests of this useful breed of ducks, and to assist the Utility Duck Club in its work for the development of the Utility Duck. All interested in Khaki-Campbell ducks are asked to come. Oscar C. Brown, Appleby, Seunthorpe, Lincolnshire.

#### ROPLEY BRANCH.

Mr. G. C. Heseltine informs me that an important meeting of the Ropley Branch will be held in the Parish Hall on Friday, December 8th, at 6 p.m. Admiral Henderson will preside. If any members who cannot attend have any suggestions to make on the subject of Co-Operative Marketing, or any point affecting the Branch, Mr. Heseltine will be glad to receive them.

#### BOURNEMOUTH BRANCH.

A meeting of the Bournemouth Branch will be held at St. Peter's Institute, Bournemouth, at 6.30 p.m. on the 6th of December (Wednesday), when Mr. D. F. Lawrence will lecture on "Some Notes on Selection and Mating." The book of rules is now ready, and will be on sale at this meeting, or can be obtained from the Hon. Secretary, price 6d., by post 7d. Admission to meetings will in future be on production of this book of rules only.

#### AN OUTER COUNCIL.

Mr. T. J. Wainwright writes as follows in reference to his resolution as to an "Outer Council," which was proposed at the General Meeting, but failed to find a second:—

"In reference to Mr. Graham Thompson's letter to you, re my resolution at General Meeting, let me hasten to agree with him that it was indefinite, and I will add intended to be so, my object being to sound the members' feelings on the subject, and then, if the proposal found favour, to ask our Council to consider a scheme. A discussion on the details would have occupied too much time at the Dairy. Personally I should be pleased if Mr. Thompson would give us his views."

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.  
Stamins—Fecundity—Type.  
**ROUGHTON via NORWICH.**

**Rev. F. KENNEN, S.P.B.A.,**  
Longborough, Glos.

White Leghorns, Special Pen. Hens from dam's 273-250 eggs. Sire's Dam, 255 eggs in pullet year.  
Pullets No. 50, winner of Special and 1st Prize, Sept. 9th, 1922. Pen No. 1, headed by Male from 250-240z. hen (Latham). Pen No. 2, later hatched, but with special forward male. Orders now taken for Sittings, Day-Olds, and Early Pullets and Cockerels. Prices and Records given on application.

### Miss HARDMAN,

Member S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good winter layers kept for breeding.

### F. A. HULME,

Heathfield Commercial Egg Farm,  
**HEATHFIELD, SUSSEX.**  
**WHITE LEGHORNS.**

Large Flock. Egg average over 180, mated to FRANK SNOWDEN (direct). Cockerels from 240-egg dams.

Hatching Eggs, Cockerels, Breeding Hens, Pullets.

### P. N. SHELLEY S.P.B.A. and N.U.P.S.

Breeder of Utility Trap-nested  
**RHODE ISLAND REDS**

1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

### FRAMLINGHAM.

Over 25 acres of exposed Grass Land. Speciality, White Wyandottes (Tom Barron) Only birds that have laid 200 eggs in pullet year and over 50 in second winter, bred from. Also White Leghorns (Barron's) and R.I.R.'s (Golden's). Eggs, 10/6; Chicks, £1 per doz.

White Wyandotte Cockerels, January, 1922, from hens with over 60 eggs in third winter from £1 each. White Leghorns, 15s.

Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

### R. H. BARLEE,

Successor to  
Mrs. SILVA JONES,  
Freewaters, Ickleford, Hitchin.

**LIGHT SUSSEX. WHITE LEGHORNS.**

Rothschild-Leigh Strain. Tom Barron.

All Pullets Trap-nested.

### WHITE WYANDOTTES.

L. WILLIAMS.

Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

### G. W. MILLER,

Breeder of High Class Trap-Nested  
**RHODE ISLAND REDS.**

**WHITE LEGHORNS.**  
**LIGHT SUSSEX.**

A Few Pullets for Sale in each strain.  
Inspection Invited.

**MILL VIEW POULTRY FARM,**

**TENTERDEN, KENT**

Five Minutes High Halden Station.

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPWAY POULTRY FARM,**  
**TORQUAY, SOUTH DEVON.**

### Miss N. B. MADDISON,

S.P.B.A., N.U.P.S.,

Dane Hill, Sussex.

### RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

Grand Early Cockerels for Sale.

All Trap-Nested Pedigree Utility Stock.

### QUAKER BROOK POULTRY FARM,

**WHITE LEGHORNS**

**WHITE WYANDOTTES**

**HOGHTON nr. PRESTON**

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,

Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-

nested Utility Poultry.

R.I.Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

### R. M. THORBURN, M.S.P.B.A.

The Kirk House, Traquair, Innerleithen.

Highest Class Utility

**WHITE WYANDOTTES.**

**ANCONAS.**

Hardy Stock, bred and reared among the  
Hills of the Scottish Border.

Trap-Nests Used Throughout.

Settings: 10/6 for 15 Eggs, Carriage Paid.

A Few Selected 1922 Cockerels, 15/- each.

### Miss ARGLES.

DAY-OLD CHICKS, bred from my famous  
White Wyandottes.

Twice top score, once third in all Ireland  
Laying Test in four years.

White Leghorns, Miss Edwards' splendid  
Laying Strain.

Cross-bred DAY-OLD PULLETS. Book now

Anstey Poultry Farm, ALTON, HANTS.

Balsham Manor Farm. Partners: E. J. Bingley and A. W. McKenny Hughes. Cren Coeurs and Houdans, from 20/- doz. Newly imported breeds with a future. Book now. Noires du Berry and Gatinaises. Sittings 20s. doz. White Wyandottes, Black Wyandottes, White Leghorns, Silkie Wyandottes. Cross, from 10/- doz. Agents for one of the largest poultry farms in France, we can obtain Black, White, and Grey La Bresse, Salmon Faverolle (Tete D'Hibou), La Fleche, and all other French breeds. Send for illustrated catalogues to Balsham Manor Farm, Balsham, Cambridgeshire, and please mention "Eggs."

### The MISSES RANSFORD, White Leghorn Stud Farm

All Birds Trap-Nested.  
All Birds on Free Range.

**PERSEVERANCE POULTRY FARM,**  
**PENSFORD, BRISTOL.**

Pedigree Cockerel List Now Ready.

### Rev. G. E. CARNEGIE, S.P.B.A.,

NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks. Cockerels from proved pen of 12 birds, 12/6-15/- each. Sittings booked for January next, 15/-, carriage paid. The strain which combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Sittings, 10/- carriage paid.

### White Wyandottes only. TOM BARRON'S STRAIN.

Dam's Guaranteed Individual Records  
226 to 275 21 to 240z. eggs in pullet  
year, over 400 eggs in two years, sire's  
dam 286 eggs.

A few selected Cockerels from about  
Mating.

Prices 20/- to 32/6 Carriage Paid.

Mrs. BURGESS, S.P.B.A., N.U.P.S.,  
Woodside, Tenterden, KENT.

### WALTER FOSTER,

Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.

Breeder of Pedigree Trap-nested Large  
Egg.

White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.

Cockerels and Pullets.

Breeding Stock of the Highest Class.  
Particulars upon Application.

### Moor House Poultry Farm, TOTON, NOTTS.

High-Class Utility Poultry.

R.I.R., S.c. (Measures), Wyandottes  
(Hunters), W. Leghorns (Warwick Rogers).

Orders Booked for Eggs and Day-Old Chicks

A Few W.L. Cockerels, 10/- Each.

Proprietor: Mrs. LITCHFIELD, M.S.P.B.A.



BREEDERS' SPECIALITIES.—Cont.

**MARKS POULTRY FARM, RETTENDON, CHELMSFORD.**  
Recently inspected by Mr. Tom Newman, who has selected our breeding pens, and authorises us to state that he highly approves of stock as regards quality, health, and condition.  
**STOCK COCKERELS.**—White Wyandottes, White Leghorns, a combination in each case of some of the finest strains in the country. Barnevelders. Imported direct from Holland, March 1922 hatched, 21s. each, carriage paid. Satisfaction guaranteed.

**R. J. HUBBUCK,**  
Member of S.P.B.A., N.U.P.S., and P.C.,  
**Pinehurst Poultry Farm,**  
**HEADLEY, HANTS.**  
Pedigree Trap-Nested  
**LIGHT SUSSEX.**  
**WHITE WYANDOTTES.**  
Sittings, Cockerels, Hens and Pulletts.


**MID-ESSEX POULTRY FARM**  
Ramsden Heath, Billericay.  
**F. BIRD, M.S.P.B.A., Proprietor**  
S.c. R.I.R. Cockerels from hen with winter record of 81 eggs (non-broody), sire's dam's record 279 (also non-broody). Also W. Leghorns, ex Leghorns, W. 'Dottes, and Anconas. Trap-nests used.  
Day-Old Chicks now being booked.  
Particulars with pleasure.

**EMBER! Carriage Paid on orders over £2.**  
n. x 6in. TGB. ... 12/6  
n. x 5in. T and G. ... 13/-  
n. x 5in. TGB. ... 11/-  
n. x 5in. TGB. ... 9/6  
n. x 5in. TGB. ... 8/6  
n. x 5in. TGB. ... 8/9  
3in. x 4in. Batters 26/6  
3in. x 3in. Batters 17/6  
2in. x 4in. Batters 15/6  
2in. x 3in. Batters 12/-  
2in. x 2in. Batters 8/-  
1 1/2in. x 2in. Batters 6/-  
1in. x 3in. Batters 6/-  
1in. x 2in. Batters 4/3  
1in. x 2in. Batters 2/6  
1in. x 5in. Saw'n Bds. 7/6  
1in. x 5in. Saw'n Bds. 8/9  
1in. x 5in. Saw'n Bds. 11/6  
1in. x 5in. W'her Bds. 7/6

Deal Direct with Importers and Save in Intermediate Profits  
To ensure prompt despatch please send cash with order and state nearest Railway Station.  
Creosote Wood Preservative 42-gall. casks, at 50/- carriage paid.  
**TANLEY BARNES & CO. (Saw Mill Dept.), 67, Dale Street, Liverpool. Central 2193**

**Eggs Insured**  
in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
**Egg Boxes**  
Insurance Policy with every Box. Catalogue Free.  
**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**"UTILITY" TRADE MARK POULTRY FOODS**  
Real Bargains until Parcels Cleared.  
Special Offers to S.P.B.A.  
per cwt. s. d.  
500 bags Pure White Wheat Meal ... 12 0  
500 bags Best Sussex Ground Oats ... 15 0  
1000 bags Fine Biscuit Meal ... 14 0  
500 bags Best Quality Fish Meal ... 15 0  
1000 bags Maize Gluten Meal ... 12 6  
500 bags Maize Germ Meal ... 11 6  
1000 bags Best Mixed Fowl Corn ... 12 0  
500 bags Heavy Clipped Oats ... 12 0  
500 bags Dari Seed, Red 10/-, White ... 11 0  
250 bags Manitoban Feed Wheat ... 10 6  
200 bags Light Wheat, Good Value ... 8 6  
100 bags Vegetable Charcoal ... 14 0  
1000 bags Special Laying Meal, consisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal 16 0  
F.O.R. Liverpool. Bags In. Cash Terms.  
**ARGYLE MILLS, Argyle St., LIVERPOOL**  
Phone: 2586 Royal. Telegrams: "Emphatic."  
Established 1868.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns  
  
**MILLER'S PARADISE HOUSE**  
For Twenty Years  
**ROBERT MILLER** has been the Pioneer in all Poultry Matters!  
His Poultry Houses are unique in design, quality and value. His thousands of customers proclaim them Best, Best, Best, every time.  
His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.  
Grand Early Hatched 1922 Cockerels, now ready, on two days' approval: 25/-, 35/-, 50/-, and 100/- each.  
Beautiful Art Catalogue, post free, from  
**— ROBERT MILLER, —**  
**DENNY, SCOTLAND.**

**To all Members of the S.P.B.A.**  
and others who have not yet tested the magnificent results to be obtained from the regular use of "Bycolla" for feeding Poultry. Do not hesitate in applying at once to your dealer for a sample bag.  
"Bycolla" aids the health and stamina of the birds, insuring a permanent increase in the egg output without impairing future welfare.

**CONVINCING TESTIMONY.**  
**READ THE FOLLOWING LETTERS—**  
"I am glad to be able to report that the last ton lot I purchased as a trial lot, has proved very satisfactory, indeed, increasing the egg yield by about 9 per cent., and the young stock has thrived wonderfully since using it."  
"I beg to inform you that the experiments I carried out with the sample cwt. of your fish meal, have given satisfactory results."

**BYCOLLA**  
REC?

**CONCENTRATED WHITE FISH MEAL IMPREGNATED WITH PURE COD LIVER OIL.**

We guarantee the only oil added to "Bycolla" to be Pure Veterinary Cod Liver Oil.

**SPECIAL REDUCTION IN PRICE.**  
Terms: Cash NOW per Bags Free.  
with Order. **24/-** per Cwt. Carriage Paid.  
England and Wales.  
Also Sold by Dealers in 7lb. Bags. Price 2s. 3d.

**BICOL LTD., 53, VICTORIA ST., GRIMSBY.**

BYCOLLA is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a 1d. per day (less than one-sixth of a farthing) per bird. No other fish, meat or blood meal, condiment or spices, should be given.  
NOTE.—Not more than 10 per cent. of Bycolla should be added to each mash to ensure best results.  
The Analysis of Bycolla shows a very high proportion of Food Units, viz.: 154, as follows:—Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum

**CLASSIFIED ADVERTISEMENTS.****FOR SALE.****PULLETS.****WHITE LEGHORN PULLETS.**

February and April; Dr. Baldwin's direct; fine health birds; reared on free range at 600ft.; 21s. each, carriage paid.—Capt. F. S. Pardoe, Bradley Court, Mitcheldean.

**BURN-MURDOCH DIRECT.**

BLACK LEGHORN Pullets, from above; all particulars on request; 21s. each.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

Nine WHITE LEGHORN Pullets, Captain Heseltine's strain direct; in full lay; must sell owing to removal; 2s. each, carriage paid.—Mrs. Bridge, Old Alresford, Hants.

Well-marked LIGHT SUSSEX Pullets, from L2 hens; now laying; 17s. 6d.; near laying, 15s. each.—Harmer, Hadlow Down, Sussex.

**R.I.R. APRIL, 1922.**

Twenty-three Good Laying Strain, Type and Colour, Solomon's; 12s. 6d. each.

**WHITE ORPINGTON, 1922.**

Seven April Good Big Birds (Cook's), all right for exhibition; 12s. 6d. each.

**LIGHT SUSSEX, MARCH.**

Seven Selected, Well-marked, laying or about to lay. Crawshaw strain; 21s. each. Approval. Carriage paid.—D. D. Combes, M.S.P.B.A., Mapsons, Sidlesham, near Chichester.

**TOM MARKS DIRECT.**

LIGHT SUSSEX Pullets, from above; all particulars on request; March, 25s.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

Limited Number April, 1922 Hatched WHITE LEGHORN Pullets (Padman), and WHITE WYANDOTTE Ditto (Barron), on point of lay. Fine healthy birds; reared on Tom Newman's formulas; 12s. 6d. each.—Richards, S.P.B.A., Perslake Poultry Farm, Stoke Canon, Exeter.

WHITE LEGHORN Pullets; 15s., 20s. Pen Eight Hens and Cocks, £6 5s. Records supplied.—Elkington, Shirehampton, Bristol.

WHITE LEGHORN Pullets. April hatched, 12s. 6d.; May, 10s. each, carriage paid. Fine healthy birds. Also for Sale, several Houses, Posts and Wire Netting; all in good condition.—Particulars from Jas. Murison, Miralcampo, Ferres, N.B.

**300 PURE-BRED R.I.R. UTILITY PULLETS.**

March hatched, by sons of 306-302-egg hens (Boucher direct), from trap-nested and flock recorded L2 hens only. From 15s. each. Also February and March Cockerels, from hens (Boucher direct), with records 224, 227, 291. From £1 each. My Utility Reds won Special Best Pen in show, any breed, Tiverton; 1st Cockerels, 1st, Pullets, Barnstaple, etc. All birds in perfect health, free range reared, and many laying. Full particulars on request.—Major Robert Lethbridge, S.P.B.A., B.E.I.R.C., Tiverton, Devon.

CROAD LANGSHAN. Eight March Pullets; Joergens; splendid birds; free range; some laying; 1st prize at Thame. 20s. each.—G. Goldamid, Brill, Bucks.

**BLACK LEGHORNS.**

February and March hatched Pullets, good layers; will make splendid breeders. Also Magnificent Cockerel; 15s. each. Pedigree, etc.—Dr. G. P. Wilson, Ketton, Stamford.

**WHY NOT HAVE THE BEST?**

WHITE LEGHORNS, April-May, from my renowned high fecund strain; 15s., upwards. 1921 Hens, clean through moult; 7s., upwards. Carriage paid. Approval.—Jack Underwood, S.P.B.A., Reliable Poultry Farm, Sutton Bonington, Loughborough.

**L. SUSSEX PULLETS.**

Hatched March-April, 1922. Bostock Smith direct. Dam's records over 200, mated to 242 cockerels. Good healthy birds, laying or near. 12s. 6d., 20s. each, according to maturity; carriage paid.—Broxup, S.P.B.A., Lydden, Margate.

Pullets. Cam-Barron WYANDOTTES; Padman LEGHORNS; March hatched; 12s. 6d. each, 18 only.—Hebditch, Pones, Stoke-in-Ham, Somerset.

RHODE I. RED Pullets, five months old. What offers? Finest laying strain, with pedigree.—Particulars from J. M. Jones, The Mount, Griffithstown, near Newport, Mon.

Cam's (direct) 285-egg, March-April, 1922, WHITE LEGHORN Pullets; laying; 12s. 6d., 15s. 6d., carriage paid.—Simmins, M.S.P.B.A., Heathfield, Sussex.

**COCKS AND COCKERELS.**

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks (all colours). Records to 269. Approval.

**CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.**

Stock Cockerels for Sale. WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS and WHITE LEGHORNS; 8s. to 21s. each, according to breed and dam's record. All with records from 234 to 277. Full particulars on application.

**PEDIGREE STOCK COCKERELS.**

February and March hatched W. WYANDOTTES, Barron's strain; fine healthy birds; February, 21s.; March, 17s. 6d. Pedigrees on application.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenthorpe, Sheffield.

**DR. BALDWIN'S DIRECT.**

WHITE WYANDOTTE Cockerels, March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 25s. each, carriage paid; November and December.—Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

**WYANDOTTES.**

WHITE WYANDOTTE Cockerels. March hatched, from daughters of 262 and 284-egg hens, by cock grandson of "Lady Eling" (301 eggs); 12s. 6d., 15s., and 21s. each.—Mansell, Kingston Start, Thame.

**F. CAREY-BOUCH.**

ELSMFIELD POULTRY FARM, OTTINGE, near CANTERBURY.

**FLOCK AVERAGE OVER 180.**

Five exceptionally good March hatched WHITE LEGHORN Cockerels (Cam-Padman), bred from L2 hens, by grandsons Lady Englantine; 25s. each. Four really good February hatched, Leigh-Rothschild Cockerel, bred from L2 hens, by Leigh Rothschild Cockerel, with 270 dam's record, 25s. each. Three days' approval, and return, carriage paid, if unsatisfactory.

WHITE LEGHORN Cockerels, by vigorous birds, from Hanson's (direct), sired by (four guinea) cockerel son of Warwick Rogers, "Lady Union", from winning pen, S.P.B.A. stock, whose official record was "over six eggs weekly for eight months"; March, 21s. April, 21s.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

**BURN-MURDOCH DIRECT.**

BLACK LEGHORN Cockerels (March hatched), from above; 25s. and 21s. All particulars on request.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

Cockerels. W.L., W.W., Seven Ancones (W. Cook, Cam, Lawson, Beresford Webb and Scott); 10s. to 21s.—Kennett Rectory, Newmarket.

Two WHITE LEGHORN Cockerels, April hatched. Eggs purchased from Frank Snowden direct; 30s. each.—Kellott, Reavy Road, Wibeay, Bradford.

**BLACK LEGHORN.**

February and March hatched; Legh strain; Cockerels, 10s., 15s., 21s.—Beaumont Booth, Wick Lane, Wickford, Essex.

Fine WHITE WYANDOTTE Cockerels, early April hatched, Birkett's strain; 12s. 6d. each.—Rev. R. Puleins, Ripley, Hants gate.

**THE LAST CHANGE.**

MISS D. HASLER, Frinton-on-Sea, offers her few remaining March hatched R.I.R. Cockerels for stock; magnificent birds; dam's records 268-281, sire, granddam of Boucher's World Record Hen, and one of 299-egg hen; price 30s. to three guineas, according to colour and pedigree. Also a few fine 1921 Pullets for Breeding; good colour and pedigree; records given; £1 each; reductions on 10. Eggs for Hatching booked now; one to two guineas for 15; 100 for five guineas. All L2 stock.

Two RHODE ISLAND Red March Cockerels (Crowley Golden). Would like to Exchange with two of another noted strain. On approval.—Bardoe, 3, South Road, Brith Kent.

**GOLD MEDAL**

Winning Strain Utility Trap-nested **BUFF ROCKS**, bred from cockerels, full brothers of male bird, heading Wright's Gold Medal pen, 1921. **RHODE ISLAND REDS** Measures-Golden-Beattie). **WHITE LEGHORNS**, from Cam's English Championship winners. Trap-nest records up to 242, 253, and 230 in all breeds. Size of egg, stamina, type, colour, our speciality. March hatched cockerels, 21s. each. **KHAKI-CAMPBELL** Drakes, direct from Capt. Long; 15s. each.—Barker and Son, M.S.P.B.A., Baines Padlock Poultry Farm, Haverthwaite, Ulverston.

**PEDIGREE R.I. RED COCKERELS.**

February and March hatched, by son of 66-egg hen, from dam's with records 291, 27, 224; pure Boucher both sides. From £1 each. See announcement under Pulletts.—Major Robert Lethbridge, Tiverton.

**BUFF ROCK** Cockerels, bred from stock supplied by J. H. Cooper, dam's record 25-238, February and March hatched, pedigree on application; 15s. to 30s. each.—Harrar, Brookroyd, Batley, Yorks.

**BLACK LEGHORN** Cockerels, February hatched, 1922, sons of 245-241-248-egg hens; typical type; ideal for mating; 15s. each.—Captain Conyers Lang, Hartwell, Aylesbury, Bucks.

**FIRST AND GOLD MEDAL.**

**WYANDOTTES**, Single Bird Test, Hampshire Section, 224 first grade one second grade. A few related Cockerels (from 24oz. egg heavy layers) for sale.—Captain Heseltine, Ropley.

Twenty Selected **WHITE LEGHORN** Cockerels; March and April hatched; bred from rap-nested hens; 12s. 6d. each. Particulars on application. Send for 1923 mating list, now ready.—Richardson and Ashton, Birley Spa Poultry Farm, Hackinhorpe, Sheffield.

**BARNEVELDERS.**

Five April hatched Barnevelder Cockerels, imported from Holland, 30s. and 20s. each.—O. Carlton, F.N.U.P.S., B.B.C., White Hall, Sudbury, Suffolk.

**BROAD LANGSHAN** Cockerels; March hatched; from pen of wonderful layers, winter eggs; direct from late Lady Essex; 1s. each.—Holt, Stonefield, Pleasington, near Blackburn.

**BROAD LANGSHAN** Cockerels, from trap-nested stock; January hatched; ready for early mating; 25s. Also Border Canaries, larks; 10s.; Hens, 5s.—Clarke Hughes, Featherstone, Canterbury.

**SALE OR EXCHANGE.**

Cockerels, bred from valuable stock obtained from Boucher, Bostock Smith, Burges, Eden, and Hunt. **RHODE ISLAND RED**, **LIGHT SUSSEX**, and **BUFF ROCKS**, March and April hatched; 15s. each, or will exchange for 1921 **BLACK LEGHORN** Hens (trap-nested), January.—Cherry Tree Poultry Farm, Sanderstead, Surrey.

Utility **HOUDAN** Cockerels, from bred-only hens; 20s. each.—Edgington, Billingshurst, Sussex.

Stock Cockerels. Pure **WHITE LEGHORN** (Padman), March; 15s. **LIGHT SUSSEX**, 12s. 6d.—Francis, 102, Dunvegan Road, Eltham, S.E.9.

Few **W. WYANDOTTE** Cockerels, Barron, dam 262 eggs; sire, Cooper-Barron; from 67 winter record dam. Beautiful birds, good colour and type. Satisfaction guaranteed. 20s. each.—Goodwin, Outspan, Cheadle Hulme, Cheshire.

**BLACK LEGHORN PEDIGREE COCKERELS.**

A few offered, 30s. each. First-class pedigree (four generations) given.—Rev. F. Wimberley, Fettercairn, Scotland.

Australian **BLACK ORPINGTON** Cockerels, March hatched, from Measure's eggs, 30s. each. Approval.—Lawrence, Cribbs Causeway, Westbury-on-Frym, Gloucestershire.

20 March **WHITE LEGHORN** Cockerels, from Metcalfe Cockerels. Bred from hens laying 240 to 285 eggs pullet year, mated Metcalfe-Sooke L2 hens; 15s. each.—Miss Baird, Day's Farm, Malvern Wells.

Cockerels, from specially selected layers, mated high pedigree sires. **WHITE LEGHORNS**, **WYANDOTTES**, **BLACK LEGHORNS**; two, 30s.; four, 50s.—Milestone Egg Farm, Patricxbourne, Canterbury.

**RHODE ISLAND RED** Cockerels, April hatched, Dr. Crowley direct; 12s. 6d.—Miss Cole, May Cottage Poultry Farm, White Hill, Crowborough, Sussex.

**WHITE LEGHORN** Cockerels. Two March 1922, dam's record 275 24oz. eggs. Price 42s. each. Two March, 1921, Cocks, from same mating as above; 25s. each. Four March, 1922, dam's record 88 24oz. eggs in 93 winter days. Price 35s. each. **WHITE WYANDOTTE** Cockerels, from high record stock. Price from 21s. to 42s. All carriage paid.—Foster, Brook Vale Poultry Farm, Simister Lane, Rhodes, Manchester.

**LA BRESSE**. Black Bresse Cockerels, Hollams-Longueville; very fine type; bred from wonderful layers; 21s., 30s.—Woodhams and Herman, Kilcot Newent, Glos.

Pedigree **RHODE ISLAND RED** Cockerels, February and March hatched (Boucher-Crowley); 15s., 20s. Pulletts, 12s. 6d. to 15s. Approval.—Harrow, "Westfield," Tenterden.

**PEDIGREE COCKERELS**, Brown and Black Leghorns, Light Sussex; March hatched.—Particulars, Mrs. Wilson, M.S.P.B.A., Minorca Farm, Dunholme, Bradford.

**EGGS AND CHICKS. WATLINGTON POULTRY FARM, OXON. DAY-OLD CHICKS.**

We are now open to receive orders. **W. Wyandottes**, **W. Leghorns**, **Rhode Island Reds** (s.c.), **W. Orpington**. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £3.

Day-Old Chicks and Settings of Eggs for Hatching. Orders now being booked for early January hatches.—Thatcham Egg Farm, Gipsy Lane, Thatcham, Berks.

My Breeding Standards guarantee

**A SOUND INVESTMENT**

in

**HATCHING EGGS.**

Trap-nest tested L2 Hens (big egg layers only), mated to Tested L2 Cocks and individual bred Cockerels. Reasonable prices. 10 per cent. reduction orders booked before January 1st. It will pay you to send NOW for FULL particulars. **W. Wyandottes**, **W. Leghorns**, **Black Leghorns**.—H. Raylinson, Lynwood P.F., Horeham Road, Sussex.

**LIGHT SUSSEX ONLY.**

All pens mated to sires, dam's records from 200 to 284. Eggs from £2 to £3 per 100. Chicks from £5 to £6 10s. per 100. Illustrated Catalogue sent on application.—C. Frederick Preston, S.P.B.A., N.U.P.S., Wildham, Andover.

**HENS.****HENS (1921)**

for Breeding **E.I.R.** (Golden), **WHITE LEGHORN** (Barron). Splendid birds. Approval; 11s. each.—Milestone Egg Farm, Patricxbourne, Canterbury.

12 **LIGHT SUSSEX** Hens, all L2; over moult and near laying; 12s. 6d. each. Approval.—Harmer, Hadlam Down, Sussex.

**DUCKS AND DRAKES.****FIRST IN BUFF ORPINGTONS.**

National Laying Test, 1,017 eggs in 44 weeks. Consecutive runs of 151 (record), 147, 108, in as many days. 1st, County Utility Cup, Winchester; 1st, Eltham; 1st and 3rd Ducks, 2nd Drakes, Tottenham.—Write for particulars, Captain Heseltine, Ropley.

Fifty Fawn and White **RUNNER DUCKS**, March-April, 1922 (commenced laying), from drakes sons of 265-egg duck, typical, upright Runners; not cross-breeds; Wilson's strain; 12s. each. 25 11s. 6d., 50 11s.; unrelated drakes, 10s. 6d., 15s., 20s. each; approval.—Wilfred Hawkes and Capt. Shaw, Blackminster, Evesham.

Magnificent **KHAKI-CAMPBELL** Drakes, free of white bibs, and guaranteed bred from recorded dams; Pettipher and Thompson's strain direct; excellent type; dark olive bills; 30s. each, approval.—Wilfred Hawkes and Capt. Shaw, Blackminster, Evesham.

Sixty Magnificent erect, shapely, long reaching **WHITE INDIAN RUNNER DRAKES**, March, 1922; guaranteed bred from trap-nested high record dams; free grass range reared; Taylor's and Harrison-Bell white egg strain; four days' approval willingly; 20s., 15s. each. Ducks (laying), dam's records over 200 eggs (unrelated to drakes), 12s. each; 11s. 6d., 25.—Wilfred Hawkes and Capt. Shaw, Blackminster, Evesham.

50 April-May, 1922, **FAWN** and **WHITE RUNNER** Ducks, Upjohn strain; bred from 250-egg drakes; well grown birds; laying or near laying; 12s. 6d. to 15s.—Worters, Uplands Poultry Farm, Rotherfield, Sussex.

Four Taylor's direct INDIAN RUNNER and two BUFF ORPINGTON Ducks; One Khaki-Campbell Drake, Paine's direct, 1922. The pen 40s., carriage forward. Deposit with Editor. — Dewse, Thornhill, Wigan.

Nye and Son offer Pedigree FAWN and WHITE RUNNER Ducks from their strain which produced World's Champion Layer, 461 eggs in 488 days, etc.; four ducks and drake; £5 or offer. Inspection invited. — Shoreham-by-Sea.

DUCKS and DRAKES.—Buff Orpingtons, Aylesburys, Fawn and White Runners; 12s. 6d. each.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

### RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

### APPLIANCES.

#### GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid. —Hudson, Sheet Metal Works, Patricroft, Lancs.

#### "ENOTS" SPRAYERS.

Ideal for Disinfecting Poultry Houses, also for spraying roses, etc. Only one hand required for use. ½ pint and 1 pint size. All metal plunger, nothing to go wrong. Also Perfume Sprayers, suitable for sick rooms, etc. Handsome glass vessel, silver plated cap and pump. Also Knapsack Sprayers, for limewashing and creosoting. Houses done in one quarter the time. Can personally recommend.—Particulars, apply, J. Stokes (Agent), Eyecote, Leominster, Herefordshire.

For Sale. Four HOT-WATER INCUBATORS, 144-egg size, new this year. £6 each, easily worth double.—River Poultry Farm, King's Lynn.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billericay, Agent Planok Cold Brooder. Vacancy for Pupil.

#### "ELECTRO-AUTOMATE"

Self-Generating Lamp for egg testing; no batteries; no refills required; 50s. each, post paid. — Clifford de Kusel, 1, Stembridge Road, Anerley, S.E.20.

For Sale. One STANWORTH-SOOLE and one BUCKEY ANTHRACITE BROODER STOVES; perfect; complete; £6 each, carriage paid.—Symes, Mission House, Littleton New Road, Ashford Common, Middlesex.

Design your own Poultry House. Estimates free, for sectional buildings of all descriptions. Best workmanship. Prompt attention.—Browett, Regent Street, Watford.

### SOME USEFUL APPLIANCES.

"Ubel" Bucket Sprayer, brass pump, fittings two nozzles, hose slightly damaged; 35s. No. 1 Bental Kibbling Machine, hand or machine power; perfect order; 40s. 12 Boxes, rope handles, screw-down lids, useful for railing dead poultry or vegetables; 1s. each. Carriage forward.—Severn Storr, Winnaway Farm, Harwell, Steventon, Berks.

### HOVERS.

Seven HANNAFORD HOVERS, 100/150 size; perfect order; new last season, and used most successfully; cost 50s. each. Accept 30s. each, or £10 the lot, including Spare Lamp, Thermometer, etc. Replacing with larger plant.—Major Hall, Quince Farm, Bramshott, Hants.

STANWORTH - SOOLE ANTHRACITE BROODER STOVE. Four for Sale; in good condition, with seven feet of piping; £5 15s. singly, or £22 the four, f.o.r. Newbury. —Capt. R. A. Angier, Mousefield, Newbury, Berks.

Two HEARSON COAL BURNING BROODER STOVES (4-500 chicks); £5 each. Also 100-Egg Gloucester Incubator; £5. —Apply, F. A. Gorton, Kynance Compton, Winchester.

TAMLIN 100-Egg Self-Supporting Lamp, complete, £5. ELITE 45-egg, 25s.—Claremont Poultry Farm, West Burton, Aysgarth, Yorks.

### CHARCOAL FOR POULTRY.

Fine, Medium, or Coarse. Guaranteed Quality; 22s. cwt., carriage paid; Half, 12s. Also Cedar and Peat Moss Litters. Dried Flies, Grits, Meals, etc. Special Quotations bulk quantities. Enquiries invited. Samples free.—Bygrave and Co., Amwell, Ware.

"ACME" ANTHRACITE BROODER STOVE, with extra large iron hover (60in. diameter), suitable for 500 chickens; in perfect order; with weights to raise and lower hover. Price £6 10s.—Dr. Readman, Frankleigh, Bradford-on-Avon.

### FOODS.

#### DERBYSHIRE LIMESTONE GRIT.

2s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

### POULTRY CHARCOAL DIRECT FROM THE MANUFACTURERS.

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal."—J. B. Lathan and Co., Ltd., 66, Eastlake Road, London, S.E.5.

FINE SWEDES, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

### AMERICAN OYSTER.

F.o.r. London, Avonmouth, Manchester, Newcastle; 6s. 6d. cwt., Stourbridge. Oyster, Flint, Cockle, and Crosshell. Samples Free.—Midland Brit Co., Stourbridge.

### GOOD CHEAP GRAIN FOODS.

Be prepared with your Chick Foods. Buy whilst prices are reasonable. Sound Feed Wheat, grown on my own farm; 12s. 6d. cwt. Canary Seed; 16s. cwt. Bags free, carriage forward. Compare other prices. Samples on application. — Severn Storr, Winnaway Farm, Harwell, Steventon, Berks.

### MISCELLANEOUS.

#### EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Steel Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Macomber, Edmore, Hook, Hants.

### PEDIGREE UTILITY STOCK COCKERELS.

WHITE LEGHORNS, WHITE WYANDOTTES, s.c. RHODE ISLAND REDS. I have a grand selection of Tip-Top Cockerels, bred from individually recorded 12 hens. WHITE WYANDOTTES, bred from a 235-egg hen; winter record 81; sire's dam E. Cam's College Queen (301-egg hen); 2s. each, carriage paid. RHODE ISLAND REDS, bred from a 203-egg hen; winter record 71; sire, Measure's 1920 cock, sire by son of hen that laid 148 first-grade eggs in six winter months, and bred from National Gold Medal Winner; 2s. each, carriage paid.—1922 PULLETS for sale. All stock sent on full approval. Send for my detailed Price List.—Lindsay Scott (Life Member and Fellow, N.U.P.S.), The Worlington Poultry Farm, Mildenhall, Suffolk.

### HATCHING EGGS.

Two year old WHITE LEGHORNS, mated 270-egg cockerels; 6s. dozen; 2s. hundred; carriage paid; order now for January onwards. — H. Chesterton, Chiddingfold, Sussex.

1922 S.c. R.I.B. Pullets, stock cockerels from high individual, trap-nested birds; prices moderate. Write for particulars.—E. Tebble, The Ash, Needham, Earlestown, Norfolk.

Breeding Pens. WHITE and BROWN LEGHORNS, 7s. 6d.; LIGHT SUSSEX, 15s.; WHITE WYANDOTTES, 10s. 6d. All 1st hatched. Also R.I.B., LIGHT SUSSEX, BLACK and WHITE LEGHORNS; Cockerels, 15s. to 30s. All bred from high-class pedigree utility stock. — F. Hodges, M.S.P.B.A., 1, Clock View Street, Beccles, Suffolk.



**RHODE ISLAND REDS** for Sale. Stock Cockerels from 21s. each; Pullets, from 15s. each.—Miss Hawson, Borrowdale, Stocksfield-on-Tyne.

When you want English or American Poultry Books try—Foster, 48, Blackwall Buildings, Whitechapel, London.

### Miss E. A. BAYNES.

Pedigree Utility **WHITE WYANDOTTES**, large egg strain. Speciality: Cockerels, bred from tested parents; 35s. to 63s. A few Pullets left; 21s. and 31s. 6d. — The Chalet, Stocksfield-on-Tyne.

For Sale, **COUNTRY COTTAGE**, two miles from Chichester, five miles from Bognor Station, half-mile; on frequent bus route; four bedrooms, two sitting rooms, garden, garages, and stable; vacant possession; £600 or near offer.—Miss Kennard, Abellands, Merston, Chichester.

600 **WHITE LEGHORN**, March and April hatched Pullets, in lay; Cam and Barron strain; beautiful birds; price 15s. each, or £36 per 50. Further reduction in price for greater quantity taken. Carriage paid on 25 birds. Four **LEA'S TRIUMPH INCUBATORS**, 250-egg capacity, new last season; £10, or nearest offer. One **HAND KIBBLING MACHINE**, new, £4. One **ARMY HUT**, Sectional, 14ft. x 10ft. Offer. Suitable for Garage or Poultry House.—Thatcham Egg Farm, Gipsy Lane, Thatcham, Berks.

**SHEEP DOG PUPPIES** for Sale; strong and big limbed, suitable to train for any purpose; 40s. each, carriage paid. — Bamford, Beeston Park Farm, Marple, Cheshire.

Offers entertained for Preserved Eggs, all guaranteed unfertile, and first grade; put down within 20 hours of laying. Contract Wanted, regular supplies New Laid Eggs, top Smithfield price.—Slapton Egg Farm, near Leighton Buzzard.

Owner Leaving Unexpectedly. 170 Magnificent Pure Bred White Leghorn Pullets (Martin Harvey's Renowned Laying Stock); perfect type; just about to lay; 12s. 6d. each; worth one guinea. Two Stanworth-Brooks 500-Chick Latest Anthracite Brooder Stoves, complete with piping (one brand new, unpacked, other used six weeks). £12 and £8; cost £34.—Dando, Broadwath, Heads Nook, Carlisle.

### LAND.

**FREEHOLD LAND**, adapted to Poultry and Market Gardening, for Sale, close to main line station, 1½ miles from London. Plots five acres or more to suit purchaser. Company's water available. From £23 per acre.—Apply, L. Edmunds, Estate Office, Cholderton, Salisbury.

### FARMS FOR SALE.

**FREEHOLD DAIRY and POULTRY FARM FOR SALE**, situate near Oldham, 25 acres, modernised six-roomed House, Barns, Shippens, and Piggeries; excellent water supply. Price £200. Possession, March 31st, 1923. Stock of Poultry, etc., optional. Immediate Sale of all Produce at good prices.—Apply, Box 189, "Eggs," 94, Farncombe Street, London, S.E.16.

**FOR SALE**, near Bournemouth, **POULTRY FARM**, four acres, freehold; six-roomed House, brick and slate; Stock, Plant, Houses, Large Runs, Kitchen Garden; good water supply. Growing district. £1,000. Full particulars sent. — Box 190, "Eggs," 94, Farncombe Street, London, S.E.16.

### WELL-ESTABLISHED UP-TO-DATE POULTRY FARM.

Adjoining Main Line Station, in Market Town, Suffolk and Norfolk Borders. Excellent Residence, eight bed, three reception, electric light, outbuildings; modern plant; 600 birds under electric light; facilities for trap-nesting 700 birds; good garden, lawn, orchard, grass land, 15 acres. Freehold. Only £2,000. Low price accepted as a going concern. Inspected and recommended. — Cobbe and Wincer, Ipswich.

### PARTNERSHIP.

Wanted, **GENTLEMAN**, experienced in Commercial Poultry Farming, with not less than £1,000 capital, to extend existing business.—Box 188, "Eggs," 94, Farncombe Street, London, S.E.16.

Advertiser, experienced Commercial Egg Farm, desires Working Partnership with another; preferably established and desiring reliable help for extension.—Box 191, "Eggs," 94, Farncombe Street, London, S.E.16.

### PUPILS.

Vacancy for **GENTLEMAN PUPIL**, on Small Up-to-Date Poultry Farm. Large country house. No fee. Actual cost of Board-Residence. Thorough tuition.—Slapton Egg Farm, near Leighton Buzzard.

Vacancy exists for **SECOND PUPIL** on Small Poultry Farm in Devonshire; tuition on S.P.B.A. lines. — Box 192, "Eggs," 94, Farncombe Street, S.E.16.

Vacancies for **PUPILS**, resident or non-resident, on Modern Utility Poultry Farm. Moderate terms. References.—Carlton-Williams, Jack o' Dandy, Eastbourne.

### WANTED.

#### MISCELLANEOUS.

**RABBITS**.—Wanted Blue Beveren Buck, of good strain, in Exchange for Pedigree Buck; two years old.—Grant, Boath, Nairn.

Six **BROWN LEGHORN** Hens, 1921; pure-bred; healthy; approval money with Editor, if desired.—Kruze, S.P.B.A., Manering Farm, Biddenden, Kent.

### INCUBATOR

Wanted, ONE **HEARSON 50-EGG INCUBATOR**.—Henning, Elmdon, Essex.

**MAMMOTH INCUBATOR**, well-known make, recent design; about 2,400 egg capacity. Also Three **COAL BURNING BROODER STOVES**.—Jones and Gladden, Sutton Poultry Farm, Stalham, Norfolk.

Wanted, 250-EGG **HOT-WATER INCUBATOR**; Hearson preferred. — Mrs. Harvey, S.P.B.A., Duffcarrig, Gorey, co. Wexford, Ireland.

Wanted Quotations for 550 Fertility Eggs, **RHODE ISLAND REDS**. Delivery second week January.—Box 186, "Eggs," 94, Farncombe Street, London, S.E.16.

### APPLIANCES.

Wanted, one 100 and one 200 **HEARSON INCUBATORS**.—Hoo Meavy Poultry Farm, Yelverton.

### EGGS.

Wanted, **FERTILE DUCK EGGS** (heavies) weakly, in dozens or hundreds. — Price, Hues, Piper's Farm, Hatton, Warwick.

### SITUATIONS WANTED.

**GENTLEMAN**, Public School Man, married, requires Position as Manager; experienced in incubating, rearing, etc., of pedigree stock; references.—Box 181 "Eggs," 94, Farncombe Street, London, S.E.16.

Wanted, Post as **MANAGERESS**, Pedigree Farm; experienced incubating, rearing table, and all general work; first-class references.—E. Wards, Welland Valley Poultry Farm, Seaton, Uppingham.

Mrs. **BOWEN**, Chislehurst, highly recommends Lady; experienced poultrywoman; gentle with birds, and clever rearer; most reliable.—Apply, Davis, 19, Wilbury Villas, Hove.

### SITUATIONS VACANT.

Wanted, **POULTRY-MAN**, thoroughly experienced in Incubation, Rearing, Egg Production, and Fattening. Must be conscientious, and not afraid of work or hours. State age, experience, wage and full particulars, with reference.—Capt. F. Barber, Rotherwood Poultry Farm, Balmoral Road, Morecambe, Lancs.

**POULTRYMAN**, experienced incubating, rearing, and general routine; cottage. — Full particulars and references, Sandford, Caldecott Cottage, Abingdon, Berks.

### 'A Stitch in Time'

If you experience a difficulty in keeping things together, try the needle of enterprise with the thread of publicity.

### "EGGS" CLASSIFIED ADVERTISEMENTS.

Repair Bad Business.

# MILKO MILK POWDER

is invaluable for all Poultry and Chicken Mashies, supersedes fish or meat meal, or any other animal matter. Get a supply of this Milk at once, and add to all your mashies. Recommended by all poultry experts, and used on many of the largest poultry farms in the country.

Milko Milk Powder is the best obtainable—therefore the Cheapest. All who mix their own foods should order NOW, as the demand is great. 1 cwt., 28/-; 5 cwt., £6 15s.; 10 cwt., £13; 1 ton, £25.

**MILKO FOOD CO.,**  
**FLEET HOUSE, FLEET STREET, LONDON, E.C. 4.**

## COCKERELS.

W. Wyandottes, Wilts' Silver Medal; W. Leghorns, 6th, National Egg Laying Test 1922; L. Sussex, Miss Dawson's Gold Medal February and March hatched. Strong, Vigorous Birds.

All birds offered have been inoculated with latest American Serum as a preventive of disease.

Price, 32s. Each, carriage paid.

**Mrs. KNIGHT, S.P.B.A., N.U.P.S**  
**ODSTOCK, SALISBURY.**

## "ZENITH TRAP-NEST"

As used by the Large Poultry Keepers. Also in the Premier Laying Competitions. FRONTS, 3/- each, carriage paid.

**WIGNALL,**  
Poultry Appliance Builder,  
LONGTON, Near PRESTON.

## JOHN A. BETTS.

Manor Poultry Farm, Hampstead Norris, NEWBURY.

Fertile Eggs, 7/6 doz.; 55/-, 100.

Free Range Cockerels and Drakes, 15/-  
Hundreds sold last season.

1921 Hens, 10/- 1922 Ancona Pullets only 10/- each.

Breeds kept: Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Light and Speckled Sussex, B.I.B. Brd. Eks., Buff and Brd. Eks., Bl. W. and Brn. Leghorns, Buff and White Orpingtons, Aylesbury, Khaki-G's, Buff Orpingtons, and Runners (both colours).

## MELLIN Bros.

White Wyandotte and White Leghorn Pedigree Pullets.

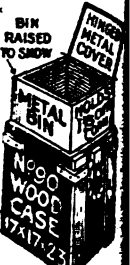
From their "World's Record" Gold and Silver Medal Winning Large Egg Strains.

For Prices, etc., write—  
**HOWGILL, RIMINGTON, CLITHEROE.**

## GOVERNMENT SURPLUS.



1 to 12 2/6 each.  
13 up 2/4 each.



1 to 5 4/6 each.  
6 to 18 4/3 each.  
19 up 4/- each.

**H. GORDON (N),**  
**166, Linden Road, Gloucester**

**Wilson's Poultry and Duck**  
**PRICE REDUCED.**

£16 ton. 17s. cwt., f.o.r. Bags free. Carriage Paid. Price and Sample Free.

**JOHN C. BANNISTER & CO., Ltd.**  
**Easingwold, YORK.**

Springtime Conditions Scientifically  
Reproduced All Year Round  
The FUL-O-PEP Way.

**FUL-O-PEP**  
**POULTRY FEEDS**

# "RADIANT" BLUE FLAME PARAFFIN BROODER STOVES.

Rear Healthy Chicks with the Minimum Amount of Trouble and Labour—BECAUSE

**THE "RADIANT" SYSTEM IS RIGHT**

AND THE STOVES GIVE

**CONSTANT HEAT NIGHT AND DAY**

AND A LITTLE RESERVE.

MODEL A.D.2 100 to 150 Chick Capacity.  
PRICE: £4 2s. 6d. Carriage Paid.

MODEL A.D.3. 250 to 300 Chick Size.  
PRICE: £5 15s. 0d. Carriage Paid.

Write for Lists.

Model A.D.3 has 13 square feet of Heated Area, and Model A.D.2 9 square feet.

**THINK THIS OUT.**

Rears 100 Chicks on an average of 1 pint of Paraffin in 24 hours.

If you are undecided, visit us at OLYMPIA, Stand No. 140 and 141, or these Works. We have a Stove running continuously.

**THORP RODERICK MFG. CO.,**  
**32, BROADWAY, BEDFORD.**

## Strains! Strains!! Strains!!!

The Laying Strains of the moment.

The Laying Strains which are setting NEW Standards.

The Laying Strains which are breaking all past World's records are:—

## Frank SNOWDEN'S Strains

The CONSISTENCY of my SUCCESSES in the Great International Laying Tests of England and America, together with the continuous report of Success from my Clientele, give Positive Proof that I Possess Produce and Purvey some of the most consistent layers in the World.

My List of Honours Includes—Premier Cups, Gold, Silver and Bronze Medals, Ribbons and Certificates. In the current Year's laying competitions Frank Snowden's birds held 7 First Positions at the end of the first six months.

At the end of the 10th month they still hold—  
1st in "Daily Mail" £1,000 Test. 1st in National Championship Test. 1st in Harper-Adams' College Test. 1st in Missouri, U.S.A. Test. 1st Highest Individual Record, Missouri Test. 2nd Highest Individual Record, "Daily Mail."

COCKERELS and PULLETS closely related, and Brothers and Sisters to above.

Prices from 21/- to £5 5/-, according to age and Pedigree. All birds carriage paid and on approval.

**WHITE LEGHORNS—WHITE WYANDOTTES—RHODE I. REDS.**

Your enquiry is a Pleasure because You can be WELL SERVED by

**FRANK SNOWDEN,**  
**RAIKES HALL, Cowling, Kelghley.**

'Phone: CROSSHILLS 85.

# 40% Increase

in EGG PRODUCTION by the use of  
"KELITE" LAMPS

(British Made).

Instal them in your Laying Houses To-day.

"Stormlite"  
Lantern.

Burns Petrol.

38/6

Carriage Paid.



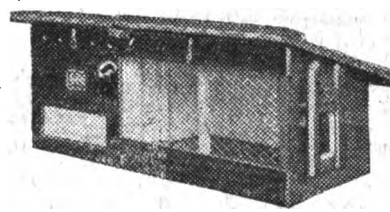
Absolutely Safe  
and Reliable.

250 c.p.,  
Costing less than  
1d. per hour.

The "KELITE" System of poultry lighting for the winter is the simplest and most economical. The "STORMLITE" is strongly made, fitted with mica windows, and gives a steady brilliant, white light, which is not affected by wind or storm. We are manufacturers of all types of incandescent oil and petrol lamps for all purposes.

Use "KELITE" TABLE LAMPS, HANGING LAMPS, etc., etc., for the HOME.  
SEND TO-DAY FOR LISTS.

KITSON ENGINEERING CO. (London), Ltd.,  
(Dept. "E"), Stamford, Lincs.



Registered Trade Mark.

No. 1 Size

## Fireless Brooder.

10-15 Chicks from one day to six weeks old. These Brooders are built for outdoor use only, where they can be used in any weather in perfect safety.

### REDUCED PRICES:

No. 1 Size. Hover only £1 5 0 Carr. fwd.  
No. 1 Size. Complete with Scratching Shed, as illustrated £2 2 0 Carr. fwd.

Write for New Illustrated Catalogue, post free.

### OTHER SIZES:

No. 2. 20-40 Chicks up to six weeks. Complete with Scratching Shed £4 15 0 Carr. fwd.  
No. 3. 60-80 Chicks up to six weeks. Hover only £4 0 0 Carr. fwd.  
Complete with Scratching Shed £7 15 0 Carr. fwd.

## WORSSAM & ABBOTT,

Phone: Chertsey 8. Telegrams: Worssam, Pyrcroft, Chertsey.

Pyrcroft House, CHERTSEY.

(4)



THE GREEN-CLOVER MEAL PEOPLE.

### EDUP YOUR BREEDING PENS NOW

WE CAN SEND YOU:-

DRIED YEAST, SOYA BEAN MEAL, SEED MEAL, PURE SUSSEX GROUND OATS, GREEN CLOVER MEAL.

H MEALS, impregnated with Cod Liver Oil at a very moderate temperature, and Forty Other Foods. List with pleasure.

Extra Charges for Delivery any Goods Station on the L.B. and S.C. Railway.

TOP QUALITY GOODS ONLY.

IE STEYNE FOODS Co.,  
STEYNING, SUSSEX.

### Best English Galvanised Netting.

h. 1ft. 2ft. 3ft. 4ft. 5ft. 6ft. Gge.  
... wide.wide.wide.wide.wide.wide.  
... 8/2 14/11 21/3 28/3 35/5 42/6 20  
... 5/- 8/1 12/5 16/7 20/9 24/10 19  
... 3/8 6/6 8/- 12/- 15/- 18/- 19

All Rolls 50 yards.  
by other Mesh or Gauge Quoted For.  
26 10s. Od. Orders Carriage Paid.  
44 Page Art Catalogue Free.  
J. A. SUTCLIFFE,  
168 Whitegate Drive, BLACKPOOL.  
Telephone No. 532.

BRITISH  
AND  
BEST.

Established  
1893.



Our BEVEL ENDED SPRING-CLIP CELLULOID RINGS-The best and most popular of all patterns. Ends bevelled-nothing projecting-giving a neat jointless appearance.

NUMBERED CELLULOID RINGS.  
12 Colours, 12, 10d.; 36, 2s. 1d.; 72, 3s. 9d.  
CELLULOID RINGS (without numbers),  
18 Colours, 12, 9d.; 36, 1s. 9d.; 72, 3s.

3-COIL SPIRALS, 12 brilliant colours,  
12, 9d.; 36, 1s. 9d.; 72, 3s.  
IMPROVED INTERLOCKING ALUMINIUM  
RINGS, numbered consecutively or year,  
12, 9d.; 36, 1s. 6d.; 72, 2s. 6d.

CHICKEN RINGS. Prices as Listed.  
All Rings Post Free. The Trade Supplied.

HUGHES, 27, HAMPTON HILL,  
MIDDLESEX.

If you get them from "HOMELAST" it means  
SATISFACTION!

ANCONAS, and THE ADJUSTABLE  
TRAP-NEST FRONT  
(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

VICTOR P. WILLIAMS,  
Homeatlast Poultry Farm, BEXHILL, SUSSEX  
A Small Farm with a Big Reputation.

## MINERAL SALTS

A High-grade Corrective, embodying Laxative and Valuable Iron Tonic Properties, which should be used regularly, either in the mash or drinking water twice a week. To assist recovery from the moult and toning up the system it has no equal.

In 2/6 & 3/9 Patent Air-tight Tins  
Carriage Paid, with full directions.

The Cost next to nothing—  
LESS THAN A FARTHING for 4 BIRDS

Price List of all Foods and Samples  
Free.

ALBION THORPE & SONS,  
RYE, SUSSEX.

Makers of the Genuine.  
SUSSEX GROUND OATS.

### SPECIAL IRONMONGERY BARGAINS

Hinges, Butts, 1s.; Back Flaps, 1s. 6d.; Tees, 3s. 3d. per dozen pairs. Best 5in. Press Locks, 1s. 2d.; Strong Rim Locks, 1s. 9d.; Padlocks, 1s. each. Mixed Screws, about two gross packets, 1s. Hasps and Staples, 1s. 4d.; Knobs, 10d.; Iron Buttons, 6d. per doz. Jack Chain, 1s. 6d. doz. yards. Best Bright Wire Nails, 1 1/2in., 1 3/4in., 2in., 2 1/2in., 3in., 3 1/2in., 4in., 4 1/2in., 5in., 5 1/2in., 6in., 6 1/2in., 7in., 7 1/2in., 8in., 8 1/2in., 9in., 9 1/2in., 10in., 10 1/2in., 11in., 11 1/2in., 12in., 12 1/2in., 14in., 16in., 18in., 20in., 22in., 24in., 26in., 28in., 30in., 32in., 34in., 36in., 38in., 40in., 42in., 44in., 46in., 48in., 50in., 52in., 54in., 56in., 58in., 60in., 62in., 64in., 66in., 68in., 70in., 72in., 74in., 76in., 78in., 80in., 82in., 84in., 86in., 88in., 90in., 92in., 94in., 96in., 98in., 100in.

SURREY VALUE Co., Redhill

# -a farthing a week for More Eggs!

Remarkable Natural Vegetable Product, supplies missing mineral salts, and maintains abundant health with doubled egg production. Costs only a farthing a week per hen. Use "SALUBRENE."

The valuable mineral and digestive elements of iron, calcium, potash, soda, etc., present in "SALUBRENE" supplies these vital constituents in digestible form.

## SALUBRENE

Use "SALUBRENE" for your poultry, and watch results. It is obtainable from your dealer in 6d. and 1s. 3d. packets, or we will send you a 7lb. bag for 6s. post free.

"SALUBRENE" is a simple organic product abounding in healthful and invigorating properties. It is NOT a spice, NOT a chemical preparation, DOES NOT FORCE. It adds essential mineral salts which promote health and increase laying capacity two-fold. "SALUBRENE" is now largely used in the most successful Poultry Farms in the country.

Mention Name of Dealer when writing.

**JOHN BEHARRELL, LTD.**  
118, WINCHESTER HOUSE, HIGH STREET, BULL

### Pedigree W. Leghorn Pullets

Guaranteed Bred from Cam's Hens, direct records 241-260, mated Barron's Cockerel, From 293 Egg Hen.  
Averaged over 63 Eggs per bird, from September 1st—December 1st.

April Hatched, 21/- each; May, 17s. 6d. each. Carriage Paid.

Numerous Testimonials. Satisfaction Guaranteed.

Write at once.

**E. S. RUSTED, S.P.B.A.,**


*Poultry Farm,*

**Kneaworth, Royston, Herts.**

### ARE YOU INTERESTED In the Insulative Treatment of DIPHTHERIC ROUPP

Then come to Stand 23, National Show, Royal Horticultural Hall, Dec. 5th—7th, and to Stand 124, Grand International, Dec. 9th—12th. Biological Institute, Merieux, Avian Anti-diphtheric Serum.

Sole Agency—**M. McLAREN,**  
185, Handside Lane, Weymouth Garden City, HERTS.



**OWEOX**  
CHICKEN TOE PUNCH

Card of sixteen markings given with each. Retail price 1/- post free 1/12.

Is just the thing for identifying chicks. Far superior to rings which only annoy the birds and become foul in use.

**CLARKES F STATION APPROACH, REDDITCH**



*We sell  
the Eggs—you  
share the Profits*

Join the  
**BRITISH EGG  
PRODUCERS LTD**

2, LINDSEY STREET,  
SMITHFIELD MARKET EQ.

BEST POSSIBLE  
PRICES OBTAINED.

Prospectus free  
on  
Application

Have you seen the bargains being offered in the classified advertisement section?

### NEWMAN & NORWOOD.

**WHITE LEGHORN PULLETS  
FOR SALE.**

*Well-Bred Birds from L2 Stock  
May Hatched.*

**12/6 Each.**

**Four Marks, Hants.**

**BARNVELDER PULLETS**—Breeding Pens of 20-21 Bantams, Wyandottes.

**LAKENVELDER**—Sumatra, Polish, Mouth-Rocks, and all other Varieties. Also all kinds of Water Fowl, Pheasants, White, Black Winged Bantams, Specifier Pea Fowl, Partridges, etc. Three pence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.** Many Testimonials as to Enormous Success.

### E. JOHNSON, THE POULTRY FARM, SILVERDALE, STAFFS.

**WHITE LEGHORNS      WHITE WYANDOTTES  
R.I. REDS and BUFF ROCKS**

**Selected Vigorous Cockerels from 17/6 to 50/-  
1922 Pullets from 10/6      Hens with records of 200 to 240  
Specially mated Breeding Pens at Reasonable Prices**

**Let me know your requirements.**

**KHAKI CAMPBELL DUCKS.**—FIRST and GOLD MEDAL at the National Laying Test, 1921-22—1,188 Eggs.

**BUFF ORPINGTON DUCKS.**—Our Pen is now Leading its Class at the National Laying Test, 1922-23.

**PELLING PEDIGREE POULTRY FARM, HAYWARD'S HEATH.** Miss **BARBARA RAYE** (Managing Partner).



# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

**Corrugated**



**Roof Sheets.**

Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed

PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

**The British Fibrocement Works, Ltd.**

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

Telephone ERITH 89.

London Office: Central House, Kingsway,  
Telephone: GERRARD 6483. W.C. 2.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Birmingham Office: 14, New Street.

Bristol Office: 28, Baldwin Street.

Telephone: CENTRAL 7292.

Telephone: BRISTOL 272.

Also at Glasgow, Swansea, Dublin and Belfast.

## "MULTEGG" Laying—Meals

deal to the progressive poultry keeper, as they reach the highest standard of consistent quality and value.

Liver Oil has proved such a wonderful addition to poultry foods that no up-to-date poultry farmer can afford to ignore its use.

An entirely new method only obtained after exhaustive experiments, we have succeeded in solving the difficulty of an exactly uniform impregnation. Every Particle of our "MULTEGG" LAYING MEALS holds its correct quota of Cod Liver Oil.

per cwt.	
ULTEGG "Intensive Laying Meal containing Alfalfa .....	22/-
ULTEGG "Laying Meal .....	21/-
ULTEGG "Dry Mash .....	19/-
85% GROUND OATS, guaranteed 95 per cent. pure Oats, stone ground .....	20/-

Cash with Order. Bags free. Freight Paid to nearest Railway Station, or your door if within railway delivery area. Therefore your first cost is the last cost.

Free Poultry Pamphlet, Price List, and copies of all "MULTEGG" Specialities post free on application. 10 per cent. Discount on all orders received through the S.P.B.A.

**J. SMITH & SON, S.P.B.A.,**  
Specialists in Poultry Foods,  
Queen Street Granaries,  
BIRMINGHAM, HERTS.

The value of Poultry can only be recognised when fed on properly proportioned food.

Therefore send to us to-day for Price List and Samples of the

## "WILLOW" POULTRY FOODS

Our Complete Laying Meal will stand any test for Purity.

Special Discount to S.P.B.A. Members.

Sole Agents for Scotland for  
Ibbotson's Poultry Appliances.

Note Address:—

**Falkirk Poultry House Co.,**

**FALKIRK and MILNATHORT.**

Telephone 76.

## Let SPRATT'S Ship your Livestock,

Relieve you of every worry from start to finish, insure your birds, and deliver them in perfect condition to any part of the world.

Spratt's will help you to satisfy your foreign and colonial buyers by packing and shipping your birds in first-class style. Poultry is shipped in specially designed coops, you are relieved of every detail from start to finish. Insurances effected. Write for particulars to

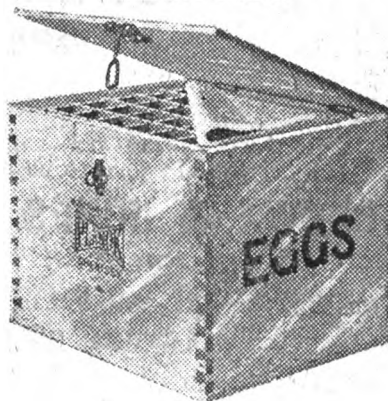
Shipping Department,  
**SPRATT'S PATENT LIMITED,**  
24, Fenchurch St., E.C.1.



Regd. Trade Mark

## EGG BOXES

These boxes are dovetailed, and fitted with strong leather-board partitions, with felt between layers. Smaller sizes have handles and hasp and staple, larger sizes iron-bound twice. Lids strongly hinged and battened. Boxes varnished outside.



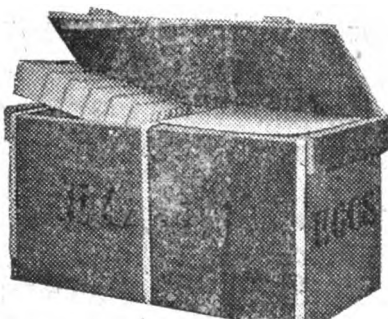
PRICES.

	10 Doz. Box.	
	6-doz. 10-doz. *12-dz. 30-doz.	
	Each. Each. Each. Each.	
Single Boxes .....	6/-	8/-
6 or more .....	5/6	7/3
12 or more .....	5/-	6/6

\* These are not dovetailed, but otherwise the same.

## Special Line. Egg Boxes.

24-Doz. Wood-wool between layers.  
30-Doz. Cardboard between layers.



Boxes varnished, iron-bound three times. Lids strongly hinged and battened. Complete with cardboard divisions and layers.

Prices:

10/- ea. single boxes.	9/- each for 6 or more	8/- each for 12 or more.
------------------------	------------------------	--------------------------

Full Catalogue on Application.

**WORSSAM & ABBOTT**  
Pycroft House, Chert

**THE BERKSHIRE TIMBER CO., Ltd.,**  
**WOKINGHAM. BERKS.**

**All Breeding Pens, L2 Birds.**

The simplest on market. Never failing action  
Singles, 3/6. Sets of 3, 10/- Carr. Pa:d.  
W. & T. MARKHAM, S.P.B.A..  
Dept. "A." QUENIBOROUGH, LEICS.

100

Digitized by Google

Early-hatched a.c. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Baucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type.  
White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Brown and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,** Member. Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

**Leckhampton Poultry Grit.**  
**THE IDEAL GRIT AT LAST.**  
A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.  
Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

**Analysis—**

Calcium Carbonate	89.30	Calcium Sulphate	traces only
Silica	3.08	Moisture, organic matter, etc.	3.19
Oxides of Iron and Alumina	3.92		
Calcium Phosphate	.56		100.00

**PRICES:**  
F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also  
Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

*Quarried and Prepared Solely by*  
**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

**TIMBER—What about it?**

WE PAY CARRIAGE ON ALL ORDERS OVER £1.  
COMPARE OUR PRICES WITH OTHERS. BUT YOU CANNOT COMPARE the QUALITY

4in x 4in. T.G.B.	7s. 6d.	4in x 6in. Sawn Bds.	9s. 6d.	3in. x 1in. Battens	6s. 6d.
4in x 5in. T.G.B.	9s. 6d.	4in. x 5in. Do.	12s. 6d.	3in. x 3in. Battens	18s. 6d.
4in x 6in. T.G.B.	9s. 6d.	4in. x 2in. Battens	2s. 6d.	3in. x 4in. Battens	25s. 6d.
4in x 5in. T.G.B.	11s. 6d.	4in. x 3in. Battens	4s. 6d.	2in. x 4in. Battens	16s. 6d.
4in. x 6in. T. & G.	13s. 6d.	2in. x 1in. Battens	6s. 6d.	3in. x 6in. Battens	40s. 6d.
4in. x 5in. Sawn Bds.	6s. 6d.	2in. x 2in. Battens	8s. 6d.	3in. x 5in. W'th'bds.	7s. 6d.
		2in. x 3in. Battens	12s. 6d.		

Other sizes quoted for. Special terms for large quantities. When ordering please state nearest Railway Good Station per 100 feet. OUT TO LENGTHS OR MULTIPLES.

**WE CAN GIVE IMMEDIATE DELIVERY ON RECEIPT OF ORDER.**  
We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mills, SEAFORTH. LIVERPOOL. Tel. 624 Waterloo.

**DR. J. H. BALDWIN,**  
SPRINGFIELD P.F. WIMBORNE, DORSET.

**ONLY THE VERY FINEST STOCK in**  
**White Leghorns,**  
**White Wyandottes,**  
**R. I. Reds (s.c.)**

**Bred from PENS of TESTED PARENTS,**  
**and PENS headed COCKERELS bred from**  
**PROVED L2 Birds.**

**A CHANGE**  
(IT IS SAID)  
**IS AS GOOD AS A REST.**  
Hence we are taking the Rest Cure this week.

If you intend hatching early table chickens, we can supply you with Eggs from LANGSHAN-RHODE ISLAND Hens, mated to Houdan Cocks. Also a few Eggs to spare from WHITE LA BRESSE-RHODE ISLAND.

**10/6 per 15. £3 10s. per 100.**  
No Replacements.

Sittings or Eggs from S.c. Rhode Island Reds, Light Sussex, Croad Langshan, Old English Pheasant Fowls, and Khaki-Campbell Ducks.

These Birds are not "high fliers," but they LAY, and produce Liveable Chicks.

Some of these Chickens were exhibited on our Stand at Bristol Show on November 8th and 9th, at which Show our birds took two firsts, two seconds, and v.h.c.

Feeding Stuffs as per previous advertisements.

**Frank Shearn & Co., Ltd.,**  
Millers and Corn Factors,  
**MIDSOMER NORTON, SOM.**  
Phone: 51.

**"Poultry Foods and Feeding."**  
ALSO  
"Chicken Rearing."  
BY  
**TOM NEWMAN**  
*Rudgwick, Sussex.*

Price **6 $\frac{1}{2}$ d.** Each,  
Post Free.

**Mrs. ALEC WILSON**  
NOW OFFERS  
Utility White Wyandotte Cocks and Cockerels from her prize-winning Stock, with trap-nest records of 210 to 270 x 271-299 2-oz. eggs and larger.  
From **30/-** and **42/-** each.

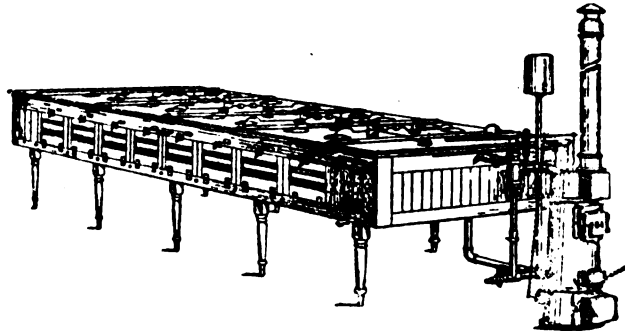
Write for Free Illustrated Catalogue.

**GARTH WYANDOTTE FARM**  
**GARTH, BRECONSHIRE**

# STANWORTH EQUIPMENTS.

## WE LEAD——OTHERS FOLLOW.

The  
"Stanworth"  
Mammoth  
Incubator.



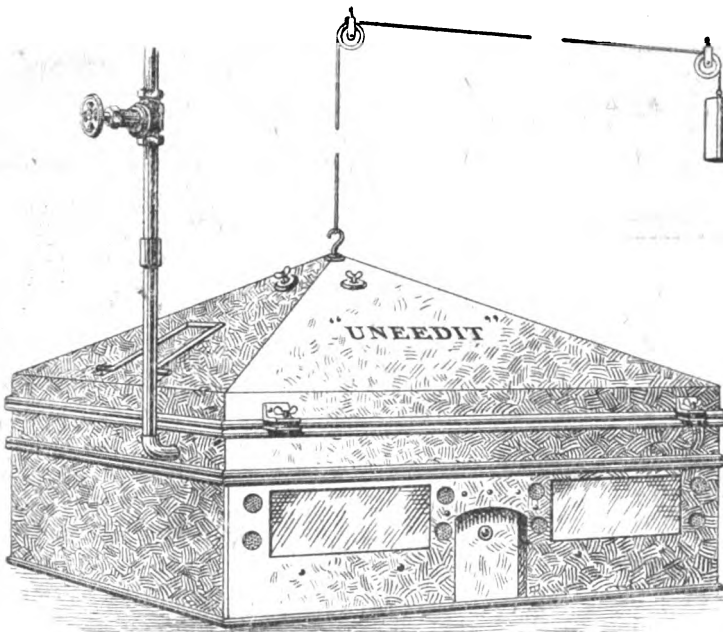
Egg Capacity:  
**1,200 to 12,000**  
British Throughout.

A "Mammoth" with a Reputation.

Have you considered installing a "Mammoth" Machine?  
If not, why not? Compare costs of hatching 150 Eggs:—

Ours - 9d.  
Others - 8s. to 10s.

*This Machine is too well known to require enlarging upon.*



The Very Latest in  
Hot Water Brooders  
**"UNEEDIT"**

*Because*

**YOU  
Have**

Complete Control of the Chicks.  
Complete Control of all conditions  
prevailing under the hover.  
An even temperature guaranteed  
throughout, and therefore there  
is no danger of crowding.

Supplied in capacities of from 150 to  
400 Chicks.

Write for Prices and Particulars.

**POULTRY APPLIANCES, Ltd.,**  
**Burnley, Lancashire.**

*Sole Patentees  
and Makers,*

'Grams: "APPLIANCES," BURNLEY.

'Phone: BURNLEY 19.

# “TOOK TOOK”

“THERE'S EGGS IN IT”

REGD

	per cwt.		per cwt.
	s. d.		s. d.
“TOOKTOOK” DRY MASH	16 6	“TOOKTOOK” MIXED GRAIN	16 6
“TOOKTOOK” LAYING MEAL	15 6	“TOOKTOOK” FATTENING MEAL	18 0

ALSO

**PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.**

	per cwt.		per cwt.
	s. d.		s. d.
CRUSHED MAIZE	12 6	SPECIAL POULTRY OATS	13 6
SMALL MAIZE	14 0	BEST FEEDING WHEAT	13 0
MAIZE CHIPS	14 0	SUSSEX GROUND OATS	20 0
MAIZE MEAL	12 0	WHITE FISH MEAL (50 per cent.	
GLUTEN FEED	11 0	Alb. min.)	18 0
		FINEST MEAT MEAL	22 6

All Free on Rail, Greenock.

Terms—Nett Cash with Order. Complete Price List FREE.  
Special prices delivered, or free on rail, London, Southampton, Plymouth, Liverpool, and all Irish Ports on application.

**MACFARLAN, SHEARER & CO.,**  
POULTRY FEEDING SPECIALISTS, (Department 36).  
**GREENOCK, SCOTLAND.**

## T. H. REDFORD, M.S.P.B.A.,

The Beeches Poultry Farm, **MOBBERLEY (Cheshire).**

**WHITE WYANDOTTES. WHITE LEGHORNS.**

**R. I. R. (Sc.)**

**COCKERELS**, February Hatched, bred from L2 Hens, Sire's Dams, L2 Hens, with a yearly record of 245-255 Eggs.

All the above Hens had also a year's record of 230 Eggs. Pedigrees and any particulars on application.

**Price 21/- each.**

**LEGHORN PULLETS**, also 50 Late May Hatched, at 10/6 each.



### Exhibition and Pure-Bred Utility Birds.

**LIGHT SUSSEX**.—1st and Sp., Lewes. 1st and Sp., Redhill. 1st and Sp., Tunbridge Wells. 2nd Utility, Crystal Palace, etc.  
**WHITE LEGHORNS**.—1st Redhill. 1st, Uckfield. 1st, Sussex Agricultural, etc.  
**BLACK LEGHORNS**.—1st and Sp., Lewes. 1st Royal Counties. 1st, Royal. 1st, Tunbridge Wells, etc., etc.  
**TOULOUSE GEESE, AYLESBURY DUCKS.**

**COCKERELS**: 21/- to £3 3s. 0d.  
**PULLETS**: 17/6 to £2 2s. 0d.

All Birds sent on Four Days' Approval.  
All Birds Trap-nested. Only L2 Birds bred from.  
Please note Change of Address, and when in our neighbourhood do not fail to visit our new 110 ACRE MODEL FARM. Write to-day for Free Illustrated Price List to

**MRS. HARRY KENT,**

**STANBRIDGE POULTRY FARM, COURT LODGE, HOVE, SUSSEX.**  
Station: **PEVENSEY** or **BEXHILL.**

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

per cent.

Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

### OSSIFIED YEAST.

Analysis.

per cent.

Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
Ash	21.04
	100.00

	per cent.
*Containing Nitrogen	6.26
! " Phosphate of Lime	18.88
Sand and Silicious matter	0.33
Total Food Units	150

### PRICES:—

Dried Yeast, 20/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
**Derby Road, BURTON-ON-TRENT.**

BY  
YOU INSURE **EARLY** BOOKING  
AND SITTINGS  
WHO LAY BIRDS  
EGGS.

FROM THE BEST STRAINS.

We are now Booking Orders for Sittings, Day-old Chicks and Ducklings for the coming season in the following Breeds:—  
Barnvelders, Light Sussex, Wyandottes, Rhode Island Reds, Anconas, Black and White Leghorns, Silver Campines, White Runners, Khaki-Campbell, etc.

Price List Free.

**The NORTH BEVON POULTRY FARM**  
**Metherell Tower,**  
**BEAWORTHY, N. DEVON.**

**MOORSWOOD**  
POULTRY FARM,

**HERONS GHYLL, UCKFIELD, SUSSEX**  
Proprietors: Mrs. James Hope & Miss A. Howard  
Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

**PULLETS from £1. COCKERELS from £1 1s.**  
A Limited Number of 1921 PULLETS at 12/6.



**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.

**GEO. THISTLEWAITE,**  
 CORN MILLER,  
**116, Wavertree Rd., Liverpool.**

Prompt Dispatch. No Waiting.

Best English Wheat	12s. 6d.
Best English Oats	12s. 6d.
Best Mixed Corn	12s. 6d.
Round Plate Corn	11s. 6d.
Sound White Dair	10s. 6d.
No. 2 Fowl Corn	11s. 6d.
Kibbled Maize	12s. 6d.
White Middlings	10s. 6d.
Best Bran	8s. 6d.
Laying Meal	12s. 6d.
Fish Meal	17s. 6d.
Meat Meal	17s. 6d.
Sweet Clover Meal	10s. 6d.
Green Bone	15s. 6d.
Uveco	18s. 6d.
Lasco	21s. 6d.
Flint Grit	5s. 6d.
Alfalfa	18s. 6d.

6d. cwt. less 5 cwt. lots.

**Consistent Winners.**

For four years in succession our birds have  
 been in the honours list at the various  
 Laying Competitions, which proves beyond  
 doubt the wonderful stamina and high-  
 laying quality of our flock.

**THIS YEAR'S SUCCESSES:**

1st, Burnley Championship (White Leg-  
 horns).

2nd, Harper-Adams' Illuminated Section  
 (White Leghorns).

2nd, National (White Wyandottes).

2nd, Midland (White Wyandottes).

7th, Harper-Adams (White Wyandottes).

We still have a few exceptionally good  
 Cockerels, in both breeds, at 21/- each  
 upwards, and a limited number of Wyandotte  
 Pullets at 30/- each upwards.

Hatching Eggs and Day-Old Chicks now  
 being booked.

Further particulars on application.

**S. AND J. PARSONS,**

**THE POULTRY FARM, MUSBURY,  
 DEVON.**

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There  
 is nothing like milk to give a chick a good start in life." ("Eggs," p. 224, 19th April).  
 Col. Hardy says:—"As regards chick rearing I have found the use of Dried  
 Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Walt says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
 will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

Also for fattening:—

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**1 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH  
 ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**  
**BRITANNIA MILLS,**  
**HEATHFIELD, SUSSEX.**  
**6, BROAD STREET,**  
**RATCLIFFE, LONDON, E.1.**

**DRY MASH, For Egg Production**

16/6 cwt. Carr. Paid

**CHICK MASH**

Frame  
 Builder.

18/6 cwt.

Carr. Paid.

**'CLOFALFA'  
 MEAL**

From German  
 Alpha  
 and Clover.

**FAM**

15/- 100 lb.

Carr. Paid.

Phone 130.

Fish Meal.

Meat Meal.

Biscuit Meal.

Palm Kernel  
 Meal.

Rice Meal.

Maize Meal.

Maize Germ.

Sussex

Ground Oats.

Flaked Maize

Kibbled Maize

Soya Bean  
 Meal.

English do.

Fish Meal.

Meat Meal.

Biscuit Meal.

Palm Kernel  
 Meal.

Rice Meal.

Maize Meal.

Maize Germ.

**PHILIP CHURCH & SONS**

**SWAN WHARF,**

**BISHOP'S STORTFORD**

**DISCOUNT TO MEMBERS 5 PER CENT.**

**NOTE THESE  
 PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in rela-  
 tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Chipped Oats	12/6

**MEALS**

Maize Meal (Fine)	11/6
Sussex Ground Oats	12/6
S.F.C. Dry Mash	12/6
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dair, Bar-  
 ley, Oat Feed, Barley Meal, Bis-  
 cuit Meal (Poultry), Service Meal  
 (fine), Cookie Shell, Flint Grit,  
 Mixed Grit, Pure Oyster Shell, in  
 K. and E. Sizes.

Prices on Application.

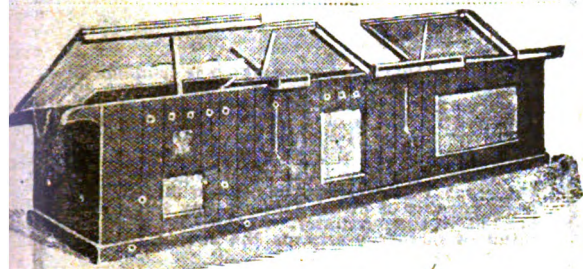
Reserve to try these **ECONOMI-  
 CAL QUALITY FOODS** to-day.  
 Order through **Secretaries**  
**S.P.B.A.**, and get your discount.

*The* **Service Food Co.**  
**VICTORIA MILLS**  
**GRIMSBY**

# Double Your Profits!

YOU can do it—if you raise your chicks in a Phipps' "PERFECTION" Foster Mother, the World's Best Brooder.

Do not use one of the many worthless brooders you will lose time and money, and miss a big opportunity. The "PERFECTION" Brooder is in a class by itself, you can depend on it day in and day out—you need never worry your chicks will burn up or freeze—they are safe in a "PERFECTION."



Raise two chicks where you raised only one before—the "PERFECTION" will enable you to do it, and remember you want every chick you can raise—you want the double profits like the successful poultry raisers everywhere who use Phipps' "PERFECTION" Foster Mother exclusively.

It is time to select your next season's brooder NOW—time to plan a successful season. It pays to make up your mind now which brooder to use, because losses during the critical part of the poultry raising season cannot be made good later—therefore pin your faith to the brooder that never fails—Phipps' "PERFECTION" Foster Mother.

**Phipps' "PERFECTION" Foster Mother.**

60 chick size, £8 6 0  
100 chick size, £7 7 0    150 chick size, £8 10 0

Phipps' Incubators and Brooders can be bought on easy terms from Graves, Ltd., Sheffield, or The Service Co., 232, High Holborn, W.C. If purchasing on these terms, please write firms direct.

Why buy a make-shift brooder?—Get the best—the "PERFECTION" at the start and double your season's profits—if you want a "PERFECTION" order yours early—NOW.

Don't fail to inspect the "PERFECTION" at BINGLEY HALL, Birmingham, this week.

**E. W. PHIPPS, Midland Works, No. 4, HARBORNE, Birmingham.**

## The Poultry-Keepers Safeguard

# "CLORINDA"

THE Infallible Sterilizer, Antiseptic, Germicide and Deodorant

Keep your Healthy Birds in Good Condition.

Heal your Infected Ones, and Prevent Epidemics

By Using

# "CLORINDA"

Sole Manufacturers:—

**THE UNITED ALKALI CO., LTD.,**  
CUNARD BUILDING, LIVERPOOL.

Telegrams: Ubique.  
Telephone: Bank 9280.

## Summerfield White Wyandottes

Pen 52. Winners of Gold Medal, Three First and Three Second Class Certificates. Laid 1,567 Eggs in 12 months, 1,460 being laid at the Harper-Adams' Agricultural College Laying Trials, 1920-1921. Average per bird: 261.16 in 12 months.

### This Pen also Broke all Previous Records.

They excel in the most important points the breed should possess, viz.:-

- 1.—Birds well up to Breed Type.
- 2.—Birds of good size, but not coarse, excelling in quality.
- 3.—They have proved they will lay all the year round.
- 4.—One of the chief points in this strain is that they lay eggs well up to standard size, 2 ozs. See for yourself in official report the size of eggs they lay.

The entire Flock and Complete Poultry Plant, including Pens 74 and 74E, competing this year at the Harper-Adams' Agricultural College, has been sold by

Mr. C. E. SUMMERFIELD  
TO

**Mr. MICHAEL F. PHELAN, S.P.B.A.,**  
Cleave Barton, Northam, N. Devon,

To whom all Communications should be addressed.

Telegrams and Cables: "Phelan, Northam." Code Used: Marconi International.

Telephone: Northam 52, Railway Station: Bideford, L. and S.W. Railway.

## Poultry is Preferred

THERE is nothing so detrimental to farming as the manner in which the house is housed. For maximum efficiency the houses must be roomy, well-ventilated and draught proof, and thoroughly capable of withstanding the heaviest winds. Moreover, for economy even on a small scale, in order that labour and expense shall be the least possible, the house must be so designed as to allow of the most efficient use of space. These are points making for the most efficient

but only in

## SLADE HOUSES

do you find them at a price which is quite reasonable. The Slade method of construction and the pattern of the corners allows of timber of uniform being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor alterations capable of being done by any handy man are left to the purchaser. To those knowing the thing of factory overheads the saving here will be obvious.

**SLADE**  
SYNDICATE, LIMITED.

(Directors: E. J. W. and M. W. Slade).

28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.

## More and Bigger Eggs from your Poultry

can be obtained by feeding your birds on a natural and complete food

## PULBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.

Made by the Manufacturers of  
MELOX and MELOX MARVELS,  
the PERFECT DOG FOODS

**W. G. CLARKE & SONS, Ltd.,**  
LIMEHOUSE, LONDON, E.





Wednesday, December 6th, 1922.



## THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 23. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## AN OMISSION.

**M*****R**S. HUNTER'S Registered Pens, through a mistake on her part, have been omitted from the Scientific Poultry Breeders' Association 1923 Register. The following are the Matings for the year:—*

### WHITE WYANDOTTES. Strain, Barron-Own.

#### EXTRA SPECIAL PENS.

##### PEN 1.

Winter Record	...	...	66.	65.	61.	61.	63.
Yearly Record	...	...	250.	246.	240.	230.	220.

##### PEN 2.

Winter Record	...	...	64.	63.	60.	63.	62.
Yearly Record	...	...	242.	216.	220.	250.	244.

##### PEN 3.

Winter Record	...	...	61.	62.	60.	68.	63.
Yearly Record	...	...	230.	240.	212.	248.	230.

##### PEN 4.

Winter Record	...	...	60.	68.	60.	60.	60.
Yearly Record	...	...	200.	249.	212.	208.	210.

Sittings from above till first week in March, £2 2s. After 30s.

#### SPECIAL PENS.

##### PEN 5.

Winter Record	...	...	51.	57.	57.	52.	56.
Yearly Record	...	...	220.	206.	204.	200.	226.

##### PEN 6.

Winter Record	...	...	52.	55.	57.	50.	53.
Yearly Record	...	...	234.	228.	251.	234.	206.

##### PEN 7.

Winter Record	...	...	54.	51.	54.	59.	55.
Yearly Record	...	...	200.	224.	236.	241.	216.

##### PEN 8.

Winter Record	...	...	51.	54.	59.	56.	52.
Yearly Record	...	...	221.	230.	249.	232.	216.

Sittings from above till first week in March 30s. After 20s.

No Eggs used under 2 ozs.

Many more Pens with Prices Slightly Lower.

All the above Pens mated to Cockerels from Dam who laid 75 (Winter Record), 253 Yearly Record, 2½ oz. Eggs.

### RHODE ISLAND RED.

Pen headed by tested L2 cock, son of Mr. E. C. B. Boucher's Celebrated Hen 37, which recorded 1,045 eggs in four years.

Winter Record	...	...	67.	59.	59.	41.	43.	41.	53.
Yearly Record	...	...	226.	242.	198.	215.	238.	191.	196.

Sittings from above till first week in March, 30s., after 20s.

Winter Records shown are from 15th October to 15th January.

### COCKEREL PEN. WHITE WYANDOTTES.

Hens' Winter Records	.....	76.	71.	70.	80.	71.
----------------------	-------	-----	-----	-----	-----	-----

All Eggs 2½ oz. No Eggs for Sale from this Pen.

Stock Birds in the Autumn.

**Mrs. C. H. HUNTER, M.S.P.B.A., Ringfield, Knockholt, Kent.**

JOIN THE S.P.B.A. AND GET RESULTS LIKE THE ABOVE.



## SCIENTIFIC BREEDING

THE average poultry keeper has an idea that the only work necessary to improve the strain is to trap-nest each bird and then to reproduce from the highest individual records. This is very misleading. When once a good strain is established individual records, though necessary, are only of secondary consideration. Our aim is to combine the three qualities of type, stamina, and the power to transmit the faculty of heavy egg production.

LETTER No. 81.

The Spring,

FRESHWATER, I.O.W.

Oct. 24th, 1922.

Miss E. Holt would be glad if Messrs. Priest and Shaw would kindly let her know what they are charging now for pure-bred Wyandotte Pullets, hatched this year, and laying now? She has not been keeping fowls for a year or so, but would like to start again, and has always found the pullets supplied by Messrs. Priest and Shaw MOST excellent.

P.S.—I would like you to know that the last lot of pullets supplied to me, two of which I parted with, are still going strong!

## SCIENTIFIC FEEDING

WITH regard to feeding, in all things it is wise to profit by the experience of others. We are prepared to give every possible assistance. As the result of many experiments extending over ten years we can offer you the most perfect egg-producing foods, and identical with those used on our farms. Please write to us for full particulars.

AT THE MOMENT WE HAVE NO LIVE STOCK TO OFFER, EXCEPT  
A LIMITED NUMBER OF PEDIGREE COCKERELS AT 2 TO 4 GUINEAS



# PRIEST & SHAW

## SANDOWN, ISLE OF WIGHT



## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Colonel Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - - - 24/- per cwt.**

Also for Fattening:—

**SWEETENED CONDENSED MILK, 8/- per case of 48 Tins. GENUINE SUSSEX GROUND OATS, 16/- per cwt.**

Write for Particulars.

5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH ASSOCIATION.

Terms:—Cash With Order.

Carriage Forward Heathfield or London.

You are cordially invited to call at our **STAND No. 24** at **OLYMPIA GRAND INTERNATIONAL SHOW**, December 9th to 12th. A Full Range of our Foods will be on show and we will be pleased to answer your enquiries, etc.

## CARR, MACDONALD & CLEVELY, Limited,

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATOLIFFE, LONDON, E.T.



**1922 PULLETS.**  
**OFFERS WANTED**  
For  
Splendid Strain of White  
Leghorns April Hatched.  
to 40 for immediate disposal  
guaranteed not culled.  
approval willingly against cash or deposit.  
Crates to be returned.  
**MARKHAM, SONS & ALLOTT, S.P.B.A.**  
**QUENIBOROUGH, near LEICESTER.**

**Bred-to-Lay Strains**  
OF  
**W. WYANDOTTES,**  
(BARBON.)  
**W. LEGHORNS,**  
(PADMAN.)

**Stock Cockerels and Breeding Hens**  
Selected Strong Vigorous Cockerels.  
Autumn Delivery.  
1920 and 1921 Hens.  
Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.  
Pedigree, Records and Particulars, post  
free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

**GRANULATED  
MOSS LITTER**  
For POULTRY HOUSES.  
1 2-Bushel Sack containing  
about 28lb., 3s. 6d.; 2, 5s. 9d.;  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.  
**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**  
12, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**WHITE LEGHORN FARM,**  
**WOODMANGOTT,**  
**MICHELDEVER, HANTS.**

A. F. C. Holdaway,  
W. T. Holdaway,  
M. Holdaway,  
C. Holdaway.

Telegrams—  
"HOLDAWAY,  
EAST STRATTON"  
Hatching Eggs and  
Day-Olds in Season.

Won't you be in time for Hatching Eggs? Ah, yes, and book them now!  
A thousand second and third season hens are kept, and will be mated to birds whose  
dams have recorded not less than 200 eggs and upwards to 250 eggs in their pullet year.

**Price 7/6 for 12. 60/- per 100.**

Good Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.  
Bankers: Messrs. Barclay's Bank, Ltd., Basingstoke.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS.,  
Breeder of High-Class Utility Poultry.  
All Pullets Trap-nested. Stock various ages,  
in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.), and Barred Rocks.  
Inspection Invited. Cash or Deposit. Tel.: 50Y3

**QUALITY,**  
**PRICE,**  
**DELIVERY.**

GRAIN, MEAL,  
GRIT, Etc.  
Etc.

MAIN  
POINTS

SEND FOR SAMPLES AND PRICES  
**JOHN W. BEVANS & Co., Tangier Rd., Portsmouth**

**SPECIAL LIME STONE GRIT,**  
**NONE GENUINE WITHOUT THIS.**  
**TRADE MARK.**  
Takes the place of Oyster Shell and Flint Grits.  
(Reg.).  
3s. 6d. per cwt., 65s. per ton.  
F.O.B. Garston. Bags free.  
All Lime Stone is not Poultry Grit.  
"Original Suppliers."  
**E. A. PITTAM,**  
"Malbreak," Greenhill Road, Allerton, Liverpool.  
Agents Wanted in all Districts.  
Samples Free. Six Grades.  
Liberal Commission Paid.



The Henman says "It's It."

**Eggs Insured**

in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
**Egg Boxes**

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
**King's Cross, London.**

**"UTILITY" TRADE MARK POULTRY FOODS**  
Real Bargains until Parcels Cleared.  
**Special Offers to S.P.B.A.**

	per cwt.	s. d.
500 bags Pure White Wheat Meal	...	12 0
500 bags Best Sussex Ground Oats	...	12 0
1000 bags Fine Biscuit Meal	...	14 0
500 bags Best Quality Fish Meal	...	15 0
1000 bags Maize Gluten Meal	...	12 0
500 bags Maize Germ Meal	...	11 0
1000 bags Best Mixed Fowl Corn	...	12 0
500 bags Heavy Clipped Oats	...	12 0
500 bags Dairi Seed, Red 10/4, White...	...	10 0
350 bags Manitoban Feed Wheat	...	10 0
200 bags Light Wheat, Good Value	...	8 0
100 bags Vegetable Charcoal	...	14 0
1000 bags Special Laying Meal, con- sisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal	...	16 0

F.O.B. Liverpool, Bags In. Cash Terms.  
**ARGYLE MILLS, Argyle St., LIVERPOOL**  
Phone: 2586 Royal. Telegrams: "Emphatic."  
Established 1868.



## CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

### "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry. The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

### "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

QUOTATIONS  
AND  
PARTICULARS  
FREE.

*Satisfaction  
Guaranteed.*

## EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

**HIS**  
**WHITE WYANDOTTES**  
and **WHITE LEGHORNS**  
are unbeatable as layers of large eggs, and plenty of them.

Send 11d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

### WHO SERVES BEST.

*Please mention "EGGS" when replying to Advertisements.*

**"An Egg in Every Ounce."**

## CLOVER MEAL

### FOR POULTRY.

"Klovera" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovera" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots

Carriage Paid in England

## ROSSLYN & Co.,

39, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

# SONIMOR

(WHITE LEGHORN)

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

LOOK OUT for OUR  
1923 PRICE LIST!!

BOOK your ORDERS for HATCHING  
EGGS and DAY-OLD CHICKS in  
GOOD TIME (Saves future worry).

Only a Few Specially Selected  
Cockerels from 6/- left.

'Phone:— 6 Chaddleworth,  
GRAMS:— "Sonimore, Leckhamstead."

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

## EGG FARM

LECKHAMPTSTEAD, NEWBURY, BERKS.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, December 6th 1922

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 6s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Beeches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## EDITORIAL.

### LARGE v. SMALL UNITS.

The following letter, which we have received from Mr. H. M. Morison, is of great interest and value. He replies effectively to most of the points which we raised in the issue of November 22nd.

If there is any difficulty, it lies in the fact that we are dealing with what is acknowledged to be one of the most perfectly equipped poultry plants in this country; a factor which must be taken into consideration when we are discussing results, because the capital outlay would be far in excess of that at the disposal of the majority of those who are ambitious to become Commercial Egg Farmers.

We do not wish to imply that Mr. Morison's success has been due to the fact that he has such a well-equipped plant, that would be to depreciate a still more important factor—good management—but, we do say that many failures have been due to defective plant, and this applies more particularly to large units.

We think Mr. Morison is inclined to minimise the risk of disease, and we are judging by facts which are known to us. It is true that no disease breaks out in a night, but we may take diphtheric roup as an example. At the Harper-Adams' Conference, Mr. Brain stated that he had trapped hens the day previous to their being found dead on the dropping-board. No sign of contagion could be seen when trapped. Yet close examination had revealed the larynx completely covered over, death being due to the hen being choked. In a 1000 hen house the risk of such a hen infecting the whole flock would be very great. Complaints have been rife this year of infectious colds running through large flocks, with a consequent big drop in the egg yield, or pullets late in starting to lay, but the graver danger lies in the epidemics incidental to Chick Rearing.

However, it is not our object to build up a case for the small unit, or to argue against the large. What we are anxious to arrive at is the system which is likely to give maximum results. The actual case so far for the larger unit system, is, that it is the only one in use; establishment expenses are smaller, the cost of labour less. These facts are admitted. Are they sufficient to warrant our insisting that the larger unit is necessarily the best without giving the smaller a trial? As we said last week, much will depend on the planning of the farm, and we believe the extra cost of labour has been exaggerated. Mr. Morison tells us that on his farm it is at the rate of 1½ men per 1,000 adult birds, but this is exceptional.

In reply to Mr. Thomas, whose letter appears in another column, the reference to "PUZZLED" not approaching the case in a proper spirit, only referred to the fact that he dealt with it solely from the point of view of the labour problem. We have found the Free Pupil Labour very much in evidence on many of the large commercial egg farms, so that his remarks would not only apply to the small unit system. However, as this has never been tried, no one can speak authoritatively of its possibilities. Neither so far as we are aware has any breed but the White Leghorn been tried on the Commercial scale, but we have known flocks of 200 Rhode Island Reds to be run quite successfully. Mr. Morison's egg record is excellent, and it is interesting to observe that he obtained a flock average of 150, including two and three year old birds, but this has been obtained with the aid of artificial light. This is beaten by a record on a Hampshire farm. We vouch for the figures, although they do not strengthen the argument in favour of small units, for they were made by a flock of 400 pullets, which laid 78,668 eggs in 13 months, or an average of 196 per bird. This was without light. The birds were housed in an army hut, and were not forced in any way.

It is encouraging to find that Mr. Morison is earning good money on his outlay at a time when so many are worried about the "Present Position." That should prove in spite of all that has been written that there is nothing seriously wrong with the Poultry Industry.

Leckhampstead,  
Newbury, Berks.

November 23rd, 1922.

To the Editor of "Eggs."

Sir,—Your article on "Commercial Egg Farming," in reply to "Puzzled's" letter in this week's number of "Eggs," is extremely interesting, and especially so to me as I am running successfully, one of the largest large farms in the country; in fact, I claim to have the largest One Breed Farm anywhere to be found. My stock this winter consists of 6,000 laying birds, all White

Leghorns, of which about half are this year's pullets.

I mention these few facts in order to show that I know something about large flock systems, and have built up my reputation on them.

Further, I should like to mention that it was Mr. Hanson who first enthused me, and gave me much useful information and helpful advice, and I endorse most fully your acknowledgment of our indebtedness to him for his enterprise originating the large flock system in this country.

I will endeavour to answer the points of your letter to the best of my ability, and in the order you make them.

I agree at once that it is almost impossible to get really useful information from Poultry Farmers, and it is also impossible for me within the scope of this letter to give the necessary figures required, and all I can say here on this point is that my accounts are strictly audited by responsible and expert auditors, and my balance sheet shows that I am earning good money on my investment.

Chick mortality on my farm over a period of years averages slightly below 19 per cent., and my hatching results show an average of over 70 per cent. When I say I rear very large numbers of chicks for myself and customers and incubate thousands of eggs annually, these results are not alarming.

In the matter of labour I find to efficiently run a farm of this size you require a staff of 1½ hands per 1,000 adult birds. This staff handles all the incubating, rearing, and brooding, also all the annual cleaning up, cultivation of necessary crops, etc., etc.

I agree that small flocks are reputed to generally yield higher egg averages, to be more easily controlled, and keep freer from disease, but can any small flock advocate beat this. Last year one of my 1,000 bird flock houses averaged 174 eggs per bird, and my whole flock, including two-year olds and a few three-year olds, did 150. When I say that I have never had any disease, people look at me, as if I were some stunt politician. As regards disease, I think we lay too much stress on the possible disastrous results of epidemics. No disease, even roup, breaks out in a night. There are always warning signals, and as long as one keeps a wary eye on the birds, and instantly isolates or destroys any suspicious customer, one can be reasonably sure of escaping trouble.

When I started I commenced with a modified Hanson type of house, 160ft. x 14ft., holding 500 birds. I have gradually, from successful experience, developed into houses of 400ft. x 16ft., holding 1,500 birds. I find the larger houses most economical and satisfactory to work, only requiring three hands to attend to 3,000 birds. My houses, of course, are designed to give the birds the maximum of comfort and the attendant the minimum of labour. They are brightly lighted at night in order to give the stock a full twelve hour working day, and water is laid on everywhere inside the houses.

My brooder house consists of one continuous long building, equipped with the very latest of hot-water systems, and accommodating 5,000 chicks at one time, in units of 500. My hatching season starts as early as January, and continues until the end of May. We have 6,000 egg mammoth incubators, which give unqualified satisfaction. The birds remain eight weeks in the brooders, and are then transferred to the colony houses, and a new batch takes their place in the brooder.

As regards your inference that the abnormal losses amongst chicks are due to the large flock system recently introduced, this may indirectly be true to a certain extent, but I should prefer to blame the defective methods employed in handling these large flocks, due possibly to ignorance or lack of experience, rather than to the large units themselves.

Everything, to my mind, points to the fact that with more experience and better methods, large flocks will be as easily and safely handled as small ones.

My own experience is that each year losses are reduced appreciably as our experience grows.

I should like very much for you, Sir, and "Puzzled" to visit my farm. I am sure we could have quite an interesting interview.

Yours very truly,

HECTOR M. MORISON.

"Sonimor" Egg Farm, Newbury.

## Foods and Feeding.

By TOM NEWMAN.

I have so often written on the question of Under Nutrition that it may seem rather unnecessary to return to the subject again, but I am so constantly receiving letters from readers, whose pullets have not started laying, or who have such a small percentage laying, that perhaps a few words may not be considered out of place.

It is, of course, recognised that no one consciously under-feeds, but, nevertheless, heavy losses are incurred from this cause, and particularly so in the early Autumn and Winter months.

I do not think that, as a rule, the trouble occurs from the failure to provide a sufficient quantity of food, although that very frequently happens from the age of three to six months, when the demand of the young growing stock for plenty of good nourishing foods is not always appreciated. I repeat here what I have frequently said before, *you cannot overfeed the growing chick or the laying hen*. You may feed an excess of starchy or fattening foods, and so get the bird in an over-fat condition, especially if you neglect to provide the necessary exercise, but on a properly constituted ration this will not happen, on the contrary the bird will make vigorous and healthy growth, and come into production at the proper time.

Now let us take the quality of the food into consideration first. I read with the very greatest interest Mr. Hussey's excellent paper on this subject at Mr. Bostock Smith's last week, it was a paper which every beginner should read, mark and digest, and it is valuable to all of us. I shall not repeat what he said except in reference to one of my formulas. This was made up: (1) with the best possible ingredients; (2) with inferior ingredients, and fed to two pens of Anconas. The first gave excellent results. In the second, after a fortnight, the birds ceased to lay, and went out of condition. This sort of thing is of common occurrence. Every morning I get letters, the majority of which tell me they are getting first-class results from my formulas, but there are others who complain that their birds are not laying, "although fed on your mash," and I am left guessing as to the cause. I am sometimes helped by the samples sent, and I will here detail what is generally wrong with the foods:—

*Bran.* Often very husky, or over milled.

*Middlings.* Often very little better than fine bran.

*S. G. Oats.* Anything from "hashed" to crushed oats or ground oats of inferior quality, with high percentage of added husk, or inferior oat feed meal.

*Maize Gluten.* Often an excess of offal or "Bran" of Maize.

*Fish Meal* with a comparatively low protein content, "smelly" and too high oil content.

*Meat Meal.* Frequently "carcase" meal, that is the carcasses of diseased animals, which have been subjected to a very higher temperature for a prolonged period in the hope of killing disease germs, consequently the protein is of little value.

*Blood Meal.* This is often mixed with cereal meals. It should be pure dried blood.

If you picture to yourselves a combination of the bran and middlings described above, or, in fact, any two of the ingredients, you will see how a beginner, and I must add, many who have been "long enough" at the game to know better, may quite innocently underfeed his stock. There is not the least exaggeration in the description of the samples of ground oats which are sent to me as, "Sussex Ground, and as for the middlings, how many grades there are of such I can't say, nor why there is not some standard fixed by the Government to prevent people being robbed in this way. I know this question of the adulteration of Poultry Foods is one of the most serious we have to face, and there are firms who buy up all the "sweepings," and sell them under some high falutin' name, to poor struggling poultry-keepers at the most extortionate prices. It is a very great pity that people do not make greater efforts to acquire such a knowledge of foodstuffs as will enable them to detect the difference between a good and bad sample of foods. After all it is only a matter of comparison, and I do not think it would offer any great difficulty to anyone who would make the effort. It should be remembered that foods of inferior quality not only do not contain the nutritive value, but owing to the higher percentage of cellulose, they frequently cause digestive trouble, which is generally indicated by the state of the droppings,

which become loose and mustard coloured, or greenish in colour, when these symptoms appear, it is advisable to consider the quality of the foodstuffs you are using. *We should set the Standard, not the Millers.*

Now, having completed quality, let us consider quantity, and the other conditions which result in a pullet not being "in a condition to lay."

I want to lay particular emphasis on this "condition to lay," because a mash which may suffice for laying pullets, will not always suffice for those which are "about to lay," and don't start.

We have the case of the individual, whose pullets started to lay last year in August, or September, and fell into a partial moult in November, just when he wanted the eggs. He is resolved that the same thing shall not occur this year, consequently he resolves to feed sparingly, or else "bulks" the mash to such an extent that the appetite is satiated, and the bird is unable to derive sufficient nourishment from the ration. Consequently there is a deficiency of body fat just at the time the pullets should come into lay. I know the difficulty in preventing precocious pullets from laying too early, and when there are signs of this, the general method is to cut out the fish meal or animal food. This is a mistake for two reasons. Animal food is necessary to normal development; and, secondly, its omission from the mash will not prevent precocious pullets from laying. It will be far better to cut out maize and its by-products, and feed an additional quantity of ground oats. I do not mean to say that maize is a better egg producer than ground oats, but it will lay on more internal fat, and 64 per cent. of the dry matter of the yolk of an egg is fat. In the case of backward pullets I should feed maize freely. Old Sussex poultry keepers are great believers in boiled maize as an egg producer, and there are sound grounds for this belief.

In Answers to Queries this week, A. S. tells of some backward pullets which were fed by artificial light. In a fortnight the egg yield had trebled, evidence that these birds were not receiving sufficient food to enable them to lay. Last summer her birds came into lay in August or September, and fearing the same misfortune this season she changed her methods, but failed to strike the happy medium. The climatic conditions this summer and last were very different, and she had failed to take this into account.

• Watch for these signs of under-nourished pullets at the beginning of September. We will assume they are April hatched Leghorns. The plumage will be "ragged" and harsh. The birds will look "long on the leg," and will be inactive. There will be comparatively poor development of comb and wattle. An underfed bird is never so active as one which is well nourished; frequently the legs, instead of being a bright yellow will be pale. Later we get the condition where pullets will start laying and cease, or lay intermittently. This will, of course, happen sometimes when we are dealing with really poor layers, but if it is due to under-feeding, we shall find the eggs are small, and there is not the normal increase in size, which we have a right to expect, and the abdomen we shall find will be shrunken, due to the fact that she has used up her reserves, and cannot start again until she has accumulated more.



Summarised: We find that pullets are underfed between the age of three and six months. The cause of this may be the inferior quality of one or more of the foodstuffs. (2) Insufficient quantity, because of the fear of their laying too early. (3) Too bulky a ration, with the result that the appetite is satisfied, and the bird is unable to derive sufficient nourishment from it. (4) The omission of animal food, which checks normal development. (5) The deficiency of fats in the ration.

There are two periods when I would feed maize heavily to pullets and laying hens; to the former from September onwards; to the latter from the end of May and through the moult; but I would drop it in the latter case, when they are just through the moult, as then they are liable to put on fat. Maize fed freely will help a hen through the moult; it is just as necessary as nitrogenous food to nourish the feather. At the end of May eggs begin to drop off, both in number and weight. Frequently, Maize judiciously fed will prolong the laying period.

## THE MIDLAND FESTIVAL.

The Schedule for the Midland Poultry Festival to be held in the Bingley Hall, Birmingham, during Christmas week is a very full one. The Classification is extensive, and includes one for any person who wants to exhibit any model invention or design, such as Incubators, Houses, Brooders, Foster-mothers, Feeding Appliances, etc. The classes for stock, open with Championship Layers Class, for utility hens of any age which have competed in an official laying test. All the utility classes will be judged on the score card system, but space does not permit me to detail all the classes, and I must refer my readers to Mr. Brain, whose address will be found in the advertisement columns. There are Egg Cookery Classes, Poultry Trussing Demonstrations, Lectures, Classes for Eggs, White, Tinted and Brown, which will be sold for the "Mail" Christmas Tree Fund. A Male

# S. P. B. A. AND GRAND INTERNATIONAL SHOW, OLYMPIA.

The Council of Scientific Poultry Breeders' Association hope to welcome many members at their Stand No. 100 during the International Show, which will be held at Olympia on December 9th, 11th and 12th.

## Scientific Poultry Breeders' Association

*All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.*

### CONVEYANCE OF EGGS BY RAIL.

At the last meeting of the National Poultry Council the question of the conveyance of sitting eggs by rail was raised. The Companies had refused to accept eggs in boxes which complied with all their Rules and Regulations, some of the objections were trivial in the extreme, the fact that eggs had been broken in these boxes seemed to be sufficient to condemn them, the carelessness of their servants was not taken into consideration. The action of the National Poultry Council induced the Companies to reconsider their decision, and Messrs. Markham tell me that they have now agreed to accept at Companies risk rate their "De Luxe" box, and their No. 3 with cardboard divisions which they had previously refused to accept except at O.R. rate.

Bird Crowing Test, Classes for Pigeons, Rabbits and Cavies, but there, if you are interested you will send to Mr. Brain for the schedule.

## LONDON AND NORTH DISTRICT POULTRY ASSOCIATION.

A Lecture will be given by Mr. A. Draper on "Stocking a Backyard" at Brondesbury Hall, Iverson Road, Brondesbury, N.W., on December 6th, at 8 p.m. All Poultry-keepers are cordially invited to this interesting Lecture.—S. T. Flewellin, Hon. Sec.

## WIRRAL BRANCH, S.P.B.A. LECTURE ON CROAD LANGSHANS.

The usual monthly meeting of the above Branch was held on 13th November last, and a very interesting paper was read by Mr. Arthur Ledsham, one of our members, who is a breeder of exhibition Croad Langshans. He explained that the subjects he was most familiar with were dogs and poultry.

and Langshans in particular, but he chose poultry as being the one most in keeping with the objects of the Association, although from what one hears of crowing hens and laying cocks the time may not be far distant when we shall also hear of utility dogs.

He commenced by telling us that in February, 1872, the first Langshans were imported into this country from China consigned to a Major Croad of Sussex, who, with his niece, were the pioneers of the Langshan in this country. After his death, and shortly before the death of his niece, the Langshan camp became divided over the question of type, some standing for long legs, and others for the lower legged type of breed which was the original. A club was afterwards formed by fanciers of the original breed and called "The Croad Langshan Club." The Croad Langshan as a table bird is difficult to beat; the flesh is white; skin white and thin, and the bones fine in texture. The cockerels at eight months should be about nine pounds, and when dressed eat like young turkeys. The pullets lay at about six or seven months and lay  $2\frac{1}{2}$  oz. eggs, generally of a very dark colour. There is only one type of comb and one colour, making it possible for the exhibition fancier to take advantage of any improvement in utility qualities without loss of type, and the utility breeder to improve the type of his birds, without loss of utility qualities.

A few years ago Mr. Tom Newman was asked to criticise, from a purely utility point of view, the Croad Langshan standard. Without giving his exact words, he agreed that extremes have been avoided, and an exhibition bird should also prove a good utility bird, and that he was glad that the standard held so strongly towards utility and the one pen character. Mr. Ledsham then gave the points allotted to the standard, and also quoted some remarks made by a breeder, in which he says that the public has formed the opinion that utility poultry and exhibition poultry bearing the same name are virtually of two distinct breeds. The exhibitor has himself to thank for this, in that he has so frequently neglected the utility qualities of his birds for the sake of show points. If one goes to see a flock of utility White Wyandottes one sees a very different bird from that which is generally found in the show pen. It may perhaps be said: What has all this to do with exhibition Croad Langshans? The reply is: It has everything to do with exhibition—it is, in fact, the foundation on which alone success as an exhibition fowl can come to any breed, and more especially to the Croad Langshan.

There is a dislike to a feather legged fowl; why, I do not know, but that dislike exists, and Croad Langshan fanciers must do something to counteract that dislike. The way to do this is to pay great attention to the laying and table qualities, which by nature cannot be excelled by any known breed of poultry, but if these qualities are neglected for shows points, the breed will quickly lose all interest in the eyes of the general public. It can, and has been done, though, and

until breeders combine to breed on these lines, the day is not far distant when the Croad Langshan will be one of the most popular breeds in the country.

There was some discussion arising after this paper naturally, and feathered legs formed one of the points discussed pro and con, and the question was asked why not breed them without feathered legs, and it was suggested by one of our members that the Langshan would then become merely a Black Orpington. Is this really the case, and are the largely boomed Australorps merely Langshans masquerading without the feathers on their legs?

Mr. Ledsham very kindly brought with him a very fine exhibition cock, who behaved admirably whilst having his good qualities demonstrated.

The lecture was much enjoyed, and Mr. Ledsham heartily thanked by those present for a very enjoyable evening.

The local members of the Branch are asked to set aside Monday, December 11th, specially as the date of the next meeting, when Mr. Brooksbank, of the Liverpool Branch, is to speak on the subject of "Oxygen in Artificial Incubation." Mr. Brooksbank has always something very fresh to tell us, and I think I can promise something very novel on this point, as I have had an opportunity of discussing with him privately his theories on this question. Make a point of attending and bring a friend or two with you. We want more members for the beginning of the year. The Meeting will take place at the Town Hall Cafe, Mortimer Street, Birkenhead, at 7.30 p.m.

#### BATH AND BRISTOL BRANCH.

The next meeting of the Branch will be held at the University and Literary Club, Berkeley Square, Bristol, on 14th December, at 7 p.m. Mr. L. G. Price, Instructor in Poultry Keeping for Gloucestershire, will give a lecture on a topic of interest.

It is hoped that all members will do their utmost to make the meeting a success. Mr. Price is keenly interested in the Branch, and is willing to do all he can to assist it. It is therefore up to all members to show their appreciation by giving him a full house to talk to.

F. T. ELKINGTON (Hon. Sec.).

#### "DAILY MAIL" TEST.

S.P.B.A. members have done well in the "Daily Mail" Test, amongst winners of £25. I notice Mr. Abel Latham (White Wyandotte), Frank Snowden (White Leghorn), Mr. Snowden had hard luck, one of his birds dying when he was leading. Miss Kitchin (Rhode Island Reds).—**This pen held first position for Reds**, and what is very interesting, pullet 153, made THE WORLD'S Highest Official Record for Rhode Island Reds, 298 eggs, ALL first grade but 5; she was the second-best bird in the whole test of 1,520 birds. It is remarkable that a pullet should lay such a very high percentage of first-grade eggs, and Miss Kitchin has

proved, in spite of all that is said to the contrary, that you can have numbers and size.

An Irish member, Mrs. Coubrough, was successful with White Wyandottes, as was Mrs. Strong, who has in the past scored some wonderful successes in the Irish Laying Tests; considering there were such few entries from Ireland, they did very well to score two wins in the first twelve places. Mr. Venn Carr and Messrs. Wrinch and Jocelyn were also winners of £25 with Leghorns and Wyandottes respectively. Other winners were Miss Bayne (White Wyandottes) and Mr. Warwick Rovers (White Leghorns).

#### KHAKI-CAMPBELL DUCK CLUB.

Sir,—There will be a meeting of Khaki-Campbell duck breeders at 2.30 p.m. on Wednesday, December 6th, the second day of the National Utility Poultry Show, at the Royal Horticultural Hall, Vincent Square, Westminster, London.

The success of Khaki-Campbell ducks is based on a sure foundation and real merit; their intense popularity is also due to the continued satisfaction of owners and to the publicity given by Laying Test proofs of merit. This success and popularity, which have caused an enormous demand for the breed, may easily lead to its ruin unless immediate steps are taken.

There are many dangers. There is already a tendency to forget that the Laying Test and Trap-nest are the only real criterion of the breed. There is a serious lack of uniformity in type and markings; a variegated selection of birds are being sent to Laying Tests; very few people know what a Khaki-Campbell ought to look like. The public are being offered and are buying, often at high prices, birds which are seriously mismarked and sometimes not Khaki-Campbells at all. These can only cause disappointment, and thus gradually undermine the good name of the breed by destroying confidence.

I therefore wish to organise a Khaki-Campbell duck club which will work for the real interest of the breed. I cannot undertake this, however, unless I am sure of support on certain points of policy which I consider vital.

It is essential to realise that Khaki-Campbells were produced primarily for egg production; they have always been kept for this purpose, and have been spared from the dangers of competitive exhibition breeding. This policy must be continued; immediately it is changed, the breed will commence to go down hill.

If a club is formed the following lines of policy are suggested:—

#### 1. PRESERVATION AND IMPROVEMENT OF UTILITY QUALITIES.

- (a) To concentrate on egg production.
- (b) To support Laying Tests, pedigree breeding and individual recording.
- (c) To give prizes to approved pens of Khaki-Campbells at Laying Tests.

#### 2. PRESERVATION AND IMPROVEMENT OF TYPE AND MARKINGS.

- (a) To adopt or modify Mrs. Campbell's standard for the breed.
- (b) To submit standard adopted to the Poultry Club for recognition.
- (c) To advertise this standard throughout the world.
- (d) To inspect and report on type and markings of birds sent to Laying Tests.
- (e) To prevent the breeding of large coarse birds.
- (f) To concentrate at first on the abolition of yellow bills, and white bibs.

#### 3. YEAR-BOOK AND REGISTER.

- (a) Reading matter. (b) Register of breeders. (c) Advertisements. Members to be required to state—
  - (1) Whether they are breeders, or breeders and dealers, or dealers.
  - (2) Whether they are using trap-nests for ducks.
  - (3) Whether they have entered ducks in laying test. Members to be asked to register free of charge.
- (1) Official individual and pen records of their Laying Test entries. Advertisements to be carefully censored. Throughout the Year-book—
  - (1) Only official Laying Test records to be quoted.
  - (2) Home performances not to be quoted.
  - (3) Show successes not to be quoted.

4. PROPAGANDA WORK.—At home and abroad to advertise economic value: Laying Test Records, standard, etc.

5. TRADE CONTROL.—To do everything possible to prevent dishonest trading.

6. CLUB MANAGEMENT.—Affairs of the club to be managed by a small Council of not more than six members, two to retire annually, but be eligible for re-election. Members of the Council to be breeders who have sent an entry to a recognised duck laying test, and whose chief interest in ducks is centred in Khaki-Campbells. Council to meet regularly; occasional general meetings of members. Subscription to be an annual minimum one of 5s.

#### 7. GENERAL PRINCIPLES.

- (1) To assist the Utility Duck Club in its work for the utility ducks.
- (2) To co-operate with other clubs and societies for the advancement of the poultry industry as a whole.
- (3) To ask for affiliation with the National Poultry Council and the Utility Duck Club.
- (4) To help to popularise the consumption of duck eggs.
- (5) To work for the abolition of the green duck egg.
- (6) To support Laying Tests, Pedigree Breeding, and record keeping.

(7) To try to prevent dishonest trading.  
**8. CONCENTRATION ON ESSENTIALS AND AVOIDANCE OF OVERLAPPING.**—So many things require attention that it will be essential only to attempt the most important. Nothing must be undertaken which is already being satisfactorily done by other organisations.

I should have liked to have consulted all my Khaki-Campbell friends before suggesting these lines of policy. I could not do that, however, as it would have meant writing letters continually for months. So I have consulted no one previously to drafting this letter. I now appeal to all who can to come forward and help me to build up a really useful organisation. The first step is to turn up in force at the meeting of the 6th.

If it is decided to form a club I hope I may have the pleasure of proposing that Mrs. Campbell be asked to become its first member and first President.

OSCAR C. BROWN.

Appleby, Scunthorpe, Lincs.

November 27th, 1922.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

All questions should be addressed to the Editor, Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

F. G. C. (Surrey). I don't think there is anything wrong with your cockerel. The "sort of draw-back in the throat" at the finish of crowing is perfectly natural. If you suspect bronchitis, keep him in a warm but not hot room at an even temperature, free from draughts. (2) The size of egg for the winter test is not definitely stated in the rules; that would be an impossibility, as often a good layer will start with eggs not exceeding 1½ ozs. in weight, and will be laying 2 ozs. at the end of the test.

E. N. (Stapleton). I have not space here to give you the standard for Rhode Island Reds, but it has not been changed since last year. (2) No, there is not too

much darts in the mixture, but it would be far better to mix cracked maize with it than wheat.

F. H. C. (Charmouth). Why, certainly you could use the pullet chicks for milk chicken, as the price is so good that it is worth while to sacrifice them so young. For that purpose they would be better than the cockerels as they are plumper and heavier as a rule at that age than the latter.

F. G. (Burnley). Success with the fireless brooder depends entirely on the individual, and the way he manages the chicks during the first week. You need not be afraid that it is too cold in the North to use them. Chicks will thrive in them as well as in a heated brooder if they are trained to run under the felts when chilled.

A. H. R. (London). I do not like this sample. The ingredients do not appear to be of good quality; there must be something wrong with a particular ingredient, which, I cannot say. The condition of the droppings indicates there is something wrong. Your birds are evidently suffering from digestive trouble.

A. E. P. (Walton-on-Thames). It is an old idea that you should have matured birds on one side, and so far this is true, but you will not compensate for immaturity on the female side by mating to a second season male. If you are breeding from pullets it will answer as well if you mate them to a well-matured cockerel as to a second season bird. (2) As a rule you get better fertility if you mate a cockerel with hens.

Venture (Shotley Bridge). You would be well advised not to mate your Leghorn Wyandotte pullets at all, as the second cross almost invariably gives unsatisfactory results, but if you wish to do so a Leghorn male would be the best mating.

A. D. (Uffculme). The Ground Oats at 18s. are a good sample, and the price reasonable. This applies also to the Gluten Feed. The Fish Meal is only a moderate sample. The Laying Meal at 14s. is hardly "complete." I gave wet mash in the issue of October 18th in the hope that I should not have to keep repeating every week. Here is one from the ingredients you give: 6 Sharps, 1 Maize Gluten, 1 Sussex Ground Oats, 1 Fish Meal. You can substitute Maize Germ for Maize Gluten for a change, and give three-quarter part each of Dried Yeast and Fish Meal instead of one part Fish Meal. (2) A forcing mash will be: 6lbs. Middlings, 3 Bran, 6 Maize Meal, 2lbs. Gluten Feed, 4 Meat Meal. The grain feed should be cut down to a minimum, so that the birds may consume the maximum quantity of mash. You must see the birds have plenty of exercise. (3) The trouble with the cockerel may have been only temporary. I do not think there is any reason why you should not breed from him.

F. C. H. (Woking). Yes, there must be a very bad leakage. If your birds cost 23s. 6d. a year for food, labour, and litter, and although you are only buying in small quantities I cannot see that the cost of food is very excessive under the circumstances, as you only

have ten birds, and they cost 3d. per week to feed, that is estimating the food at the price per lb. you give. That would leave 8s. 6d. per bird for labour, and litter, which is excessive. I cannot tell you where the fault lies, as you do not tell me all the circumstances. (2) As you are able to supply fresh green food, the Alfalfa is not necessary. I could not guarantee that on my mash formula the birds would give a greater output with a smaller consumption. Limestone grit, if a good sample, suffices for all purposes.

J. S. (Pickering). Your birds seem to be feather plucking. This is a vicious habit, generally caused by idleness. Give them plenty of fresh green food. See they have to scratch for all their grain food, and smear the feathers with vaseline, in which a small quantity of bitter aloes has been mixed. (2) Will you give me more details as to the leg-weakness, whether it is with laying pullets, hens, or cockerels.

C. C. (Rusper). For the present I should cut down the quantity of mash, and make up with a corresponding amount of corn. High fecund pullets when starting to lay often lay shell-less eggs, and the mash may be a bit stimulating for individual birds.

A. S. (Killearn). As the birds have already responded to the feed by artificial light so wonderfully, I do not think I should make any alteration in the feeding. To treble the yield in a fortnight shows what benefit the backward stock gets from the use of artificial light and the extra feed. It does not matter at what time you feed the sprouted oats, but why not trough-feed them at night. Thanks for your gift to the N.P.I. Fund.

E. P. (Dorset). No. 1 Bran a fair sample, but very dear at 12s. per cwt. No. 2 Pollard, the same remarks apply. 3. Middlings, this is better value than the Pollard. 4. Maize Gluten, a very good sample at a fair price. 5. Maize Germ, good. 6 This is not Sussex Ground Oats, but Feed Oatmeal, and not a good sample. It would spoil a mash. 7. Barley Meal, this is ground too coarsely to use as a meal it would answer very well as a scratch feed, and at the price would be well worth the money. It might be sifted, and some of the meal used in the mash. 8. This is a very bad sample, containing a high percentage of oil. It is unfit for a poultry food, and would be likely to make the eggs taste. (2) It would have been wise to have stopped the Fish Meal altogether while you were giving the milk. If you were using the sample mentioned above, it may have had something to do with your birds dying, as it is a very bad one. (2) I should give these backward pullets an extra feed by lamp-light. It is possible they are a little under conditioned. (4) You must not think of finishing hatching at the end of February next year. If you do your profits will all vanish. If your birds are Leghorns, hatch a few in February, more in March, and the majority in mid-April. If Wyandottes, hatch one fourth in late February, and the remainder the third week in March. (5) Your accounts are not complete enough to express an opinion.

F. A. (Louth). In case of actual production I do not think that the output of eggs would be greater on the dearer mash than the cheaper one. The latter was given in answer to a question by a reader for a particular purpose, and when the question of reproduction arises, I believe it to be worth the additional money. On the other mash half Dried Yeast being substituted for the corresponding amount of Fish Meal, a flock of 400 Leghorns average 196 in 13 months.

J. R. (Salisbury). As you have had no experience and do not wish to spend more than the sum you mention, the best advice I can give you, is to "hasten slowly," and gain your experience as you go along. I think your best plan will be to start with day-old chicks. At the same time, as you want to gain experience, get an incubator and some eggs, and learn how to hatch. Whether you build your own houses or not, will depend in a great measure on your ability as a builder. If you have to employ labour it will be cheaper for you to buy them ready-made. As to the lay-out of your farm, I think it would be much wiser if you were to visit one or two of the farms in the neighbourhood, and get an idea of what is wanted. It would be far better to do so than for me to advise you as to a plan. I can't tell you a book which would cover all the ground you want, but you might try Toovey's Commercial Farming, Flatt's Poultry Keeping, Hanson's book you already have. Your best plan will be to stick to one breed, preferably Leghorns.

E. N. Gillingham. "I find difficulty in obtaining Malt Culms as advocated in the wet mash given in October 18th issue of "Eggs." At present I use: Potatoes, boiled in skins, three parts; Broad Bran, 2; Sussex Ground Oats, 2; Maize Germ Meal, 1; Middlings, 4; Fish Meal, 1. So far I have had as good results as from an expensive proprietary brand, but I should like your opinion. It is an exceedingly cheap mash. I give an abundance of green food."

There is not much wrong with the mash, E. N., but as you have plenty of green food, why not use cooked cabbage in place of the Bran; add another part Potatoes, omit one part Sussex Ground Oats, and increase the Fish Meal to 1½ parts, as owing to the deficiency of the potatoes in protein, you need a little more animal food.

D. H. (Biggin Hill). The Ground Oats are a poor sample, not Sussex Ground. I would not advise you to use them. The Clover is very poor, containing a high percentage of empty seed cases. (2) It does not matter that the hen has been mated to a cockerel of a different breed, you will breed pure progeny from her if you mate her to a cockerel of her own breed. (2) If a male is removed from the hens for a long period, he is very apt to become sterile.

Padler. I cannot tell you the cause of the death of the pullet, nor why the organs should have had the coating of white. Miss Knight might possibly have been able to tell had she made a post-mortem examination. I do not know, and it will not help you if I try to guess.



L. T. G. (Gloucester). "I have two Minorcas and some Wyandottes hatched May 1st last, also some Exchequer and White Leghorns hatched on June 9th last. They are fed on Mr. Newman's mash and grain buried in the litter and scratching shed four square feet per bird. (1) None of these birds are laying. I am thinking of adding now 50 per cent. more Fish Meal to buck them up. Would this be too much? Half my two-year-old Leghorns are laying on the same mash, so food is apparently alright. (2) I have a large size Gloucester Incubator. Can you briefly oblige by telling me the following: (1) Temperature first and remaining weeks. (2) Times for removal of felts. (3) Cooling and Turning. (4) Moisture (no moisture device whatever is provided). The machine is in a vacant spare bedroom, first floor, and faces west. The temperature of the room will always be fairly low. (3) I am investing £5 5s. in a pen of six Wyandottes (White) 1921 hens and 1922 cockerel. Can I expect to get hens with a pedigree 200 in pullet year, and a good cockerel from a 250 dam, or is the money insufficient?"

It is not so much the question of feeding, L. T. G., as the fact that all your pullets were hatched too late. The Minorcas and Wyandottes should have been hatched in March, and the Leghorns before the end of April. A late hatched bird never develops so rapidly as one which is early hatched, and if you really intend to make your fowls pay, don't hatch heavy breeds after March, and light ones after the end of April. The addition of the Fish Meal will not help matters at all. A far better plan will be to give the birds an extra feed by lamplight. (2) Run the incubator at 105 degrees the first week, and at 104 the second, 103 the third. Do not remove either felt until the 20th day, and then only one. Don't cool unless the temperature runs up, and turn four times daily. The best plan would be to have a tray about six inches deep, and to cover the whole of the floor space underneath the machine. Fill this with moss litter or sand, and keep it wet. (3) You must think yourself exceptionally lucky if you obtain a pen of Wyandottes with a pedigree such as you mention at double the money.

J. H. L. (Ringwood). By the "Intensive" system of keeping poultry is meant that the birds are kept entirely confined to the house the whole year round. It is intended for those who have only a small area of ground, as it enables a larger number of birds to be kept than would be the case if the birds had a small house and a comparatively large run. By "Semi-Intensive" is meant that, generally adopted on the large commercial egg farms, this enables a larger number of birds to be kept to the acre, as they are in houses sufficiently large to enable them to be kept in during inclement weather without detriment to their health, there being ample space for them to obtain the necessary exercise. They have duplicate runs, one half being rested and cropped, while the other is occupied. This prevents the ground becoming foul.

H. C. J. (Bethersden). Basic slag is not harmful to poultry when spread on grass on which they only roam over occasionally. (2) The cold brooders are quite successful if you train the chicks to run in and out for the first few days. So much depends on the in-

dividual who runs them. Some are very successful, others fail badly. (8) The eight weeks old chick which you say "suddenly became an enormous blister," was suffering from "cutaneous emphysema," that is an abnormal amount of air under the skin. The condition is caused either by a wound or spontaneous rupture of the organs containing air, such as the trachea, or the various air sacs and passages communicating between them. You did quite right to prick the skin, that is the only way to give relief.

W. L. (Little Burstead). No, if you mate Rhode Island Red pullets with Black Leghorn males, you would not breed black pullets and red males; on the contrary, they would nearly all come black with perhaps red in the neck hackle.

H. W. S. (Little Baddow). The goats' milk would be splendid for the chicks. You could give it them to drink, and for hens or ducks mix the mash with it instead of water. I would not breed from the mongrel hens, however well they may be laying.

P. L. (Easton). I do not know the dose of Epsom Salts which was given in the Montana Test as a substitute for green food. Haven't you a little misunderstood it. The salts were not given actually as a substitute for green food, but no green food was supplied, and the birds were kept in health and production with a monthly dose of salts. I will endeavour to find out the dose, and let you know; but I may tell you that one per cent. of dry Epsom Salts added to the mash, and used continually is a fine tonic, and is much better than giving periodically an aperient dose. I discussed this with Dr. Kaupp last year, and he agreed that it was much the better way. I do not think we shall find Epsom Salts an adequate substitute for green food.

H. W. B. (Bath). I do not think there are any grounds for the statement which you saw in a Poultry Journal to the effect that if pullets are run in their first year without a male in the pen their eggs will not be so fertile the next year. There could be no reason for such a statement, and it would be rather difficult to test, wouldn't it?

F. H. C. (Ringwood). I could not recommend the Croad Langshan for Commercial Egg Farming. It is not quite such a good layer as the Wyandotte or Red, but it lays a much more attractive egg.

G. H. W. (Winklebury). "We are sending you samples of Limestone Grit, and shall be glad of your opinion as to the size for adults and chicks. We made a comparative test between this grit and oyster shell. Each were fed alternately to pens containing 200 and 75 birds, and the limestone produced 75 eggs per lb., and the shell 54 eggs per lb. As a matter of fact we believe the result should be still more in favour of the limestone, as the 200 pen had free range during the time that it had shell. (2) I am also sending you samples of Fish and Clover Meal, and should like your opinion on them. The reason we ask is that we commenced using both simultaneously last week. Since then the birds have scoured a little, the droppings being

very dark and yellow in colour. (3) Perhaps you will remember that we wrote you re Roup. Well about the time we were culling and selecting for next year's breeding pen, we found so many with "fur" in the mouth that we got the County Expert to inspect them. when he pronounced it to be a form of indigestion, such as recently been described in "Eggs." We condemned about 50 in about 20 hours after most of them were quite clean in the mouth without any treatment. We are happy to say that the pullets are doing well. The first hatch came off on March 25th, and commenced to lay on August 22nd. In October they had reached 60 per cent., when one or two commenced a neck moult, and production dropped to 50 per cent. Would you advise us to light these birds? "

The grit is rather too large both the adult size and that for chicks. I am rather surprised at the production per lb. of grit, as compared with oyster shell. I think there must have been other factors which you have not taken into consideration. (2) I cannot see anything wrong with the Fish Meal except that it is inclined to "clog," but I must attribute the droppings to that and to nothing else. The Clover Meal is not a good sample, but that would not affect the droppings. (3) It must have been a relief to have found the birds were not suffering from roup. I have had one or two letters from readers who have had the same experience as you have had. You can always detect roup because there is such an offensive smell with it. (4) I am pleased the pullets have done so well, 60 per cent. in October is excellent. Light would help those which have developed a partial moult.

#### DUCK QUERIES.

Forethought (Coombe Hill) has 20 I.R. ducks, which are laying very badly, and he wants to know how the ducks are fed at Bentley.

I can tell him pretty nearly what mash is given at Bentley, but I would have him to remember that there may easily be more than the matter of feeding which has contributed to his bad results.

The mash fed at Bentley varies, of course, slightly as it should do according to season of year, conditions of birds, etc., but the following is about the standard feeding:—

- 60 per cent. of Middlings.
- 12 per cent. of Bran.
- 10 per cent. of Sussex Ground Oats.
- 10 per cent. of Maize Meal. (This percentage varies a good deal.
- 8 per cent. of Fish Meal.

Two buckets of cabbage and one bucket of potatoes are boiled each day, and mixed with the above.

When ducks are in full moult the Fish Meal is considerably reduced.

For Corn Feed in morning: Two parts Oats and one part wheat, in cold weather Cracked Maize.

No one could say that the above is a forcing ration, and the fact that Miss Bair gets such excellent results from it makes one think that the lady is an enchantress far beyond the majority of her enchanting sex. If she can so beguile ducks to lay eggs at her feet what could she not do with the hearts of our unsophisticated

and susceptible sex! Fortunately for some of us she is busily engaged at a more important job!

But to return to a less frivolous subject. It may well be, "Forethought," that your ducks have not been bred for egg production—quite possibly their parents were exhibition birds, in whose breeding no attention had been paid in the matter of egg production. If so, no matter what the feeding may be, it would be just a gamble as to whether you got any eggs in Winter.

Also, they are 1921 birds, and, therefore, cannot be expected, even if they have been bred for egg production, to lay in Winter as well, and as regularly as 1922 ducks should do.

Comparatively few 1921 hatched hens are laying now, or, in fact, ever do lay till well into December.

I fancy if you handle your ducks you will find them heavy, and too fat, if so, give one teaspoonful of salts (Glauber or Epsom) to every three birds in the mash on alternate days for a week or ten days.

Give only one handful of corn to every two birds as a morning feed, and as much mash as they are really hungry for at night.

If your birds do not forage during the day time, you are giving them too much corn in the morning.

See that they have fresh air in their house at night, and allow about two square feet of floor space for each bird.

In any case, they should come on to lay early in January.

N. B. (Yorkshire) wants to know how I can account for the fact that the Khaki-Campbell ducks have surpassed the Indian Runners at egg production in the Bentley Test. Is it because they are really better layers?

No, N. B., I do not think it is because they are better layers. In spite of the Bentley Test results I should still expect a flock of Indian Runners to beat a flock of Khaki-Campbells, or, at least, to equal them at egg production if and when kept under ordinary home conditions. Especially if these conditions included free range.

There are reasons why the Khaki-Campbells (all honour to them!) should have done better than the Indian Runners at Bentley.

(1) The Khaki-Campbells are nothing like so nervous as the Indian Runners. This means that the journey to, and the new surroundings at Bentley would upset them in a much less degree, so that they would settle down to egg production much earlier.

A severe nervous ordeal and consequent check to egg production just at the psychological moment (October) might easily put nervous Indian Runners off laying the whole winter.

And, again, I presume that visitors are allowed to walk round the duck pens at Bentley. The Khaki-Campbells would not mind this at all; on the other hand, the Indian Runners would object to it strongly. A quick movement of the arms of a visitor, or even of an attendant, frightens them.

(2) I think the competing ducks at Bentley are more or less confined to a moderate pen.

Now the Khaki-Campbells are of a phlegmatic disposition, and are quite happy thus confined. They do

# OLYMPIA.

# E. Dixon & Sons.

## STAND No. 73.



### Vitamin Poultry Food

THE Yeast Extract "par excellence.

**SENT DIRECT TO POULTRY FARMERS**

**I**N view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

### Better Birds —more Eggs

**T**HIS preparation contains the important -B. Vitamin so essential for the health of Birds. Birds having too little B Vitamin often go off their legs. Cerema M. helps to prevent this. Egg-laying is improved by addition of this vitamin to the food. Those who feed dry mash may give Cerema M. as a drink (1½ oz. to 1 quart water) to the Birds in the morning. Those who feed wet mash may incorporate a rather stronger solution in the mixture. Birds will take it eagerly. It increases their resistance to disease and assists digestion. Cerema M. can take the place of green food.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**

**KEEP IN TOUCH WITH  
ALTERATIONS IN PRICES.**

**GENUINE  
Sussex Ground  
OATS.**

*Stone Ground in Sussex.*

	per cwt.	s.	d.
Dried Skimmed Milk	...	24	0
Sussex Ground Oats	...	16	0
Maize Meal	...	12	0
Maize Gluten Feed	...	12	0
Pea Meal	...	16	0
Bean Meal	...	16	0
Meat Meal (Fine Ground)	...	22	6
Fish Meal (Best White)	...	23	6
Biscuit Meal (Fine)	...	22	6
Clover Meal	...	17	0
Broad Bran	...	12	0
Middlings (Best Fine White)	...	13	0
Middlings (English)	...	12	0
Feed Wheat (Best English)	...	14	0
Feed Oats (Best English)	...	18	0
Kibbled Maize (Sifted)	...	12	0
Flint Grit	...	8	0
Limestone Grit	...	8	6
Oyster Shell	...	8	0
Cockle Shell	...	6	6
Rollod Wheat (for Chicks)	...	18	0
Dried Yeast	...	19	0
Pinhead Oatmeal	...	24	0
Whole Oat Groats	...	24	0
Broken Rice	...	16	0
*No. 1 Chick Feed	...	22	0
Mash for Laying Hens	...	18	0

(Both the latter are Mr. Tom Newman's Recipes.)

Carriage Forward.

**5 PER CENT. DISCOUNT TO S.P.B.A.**

**MEMBERS IF ORDERED THROUGH  
ASSOCIATION.**

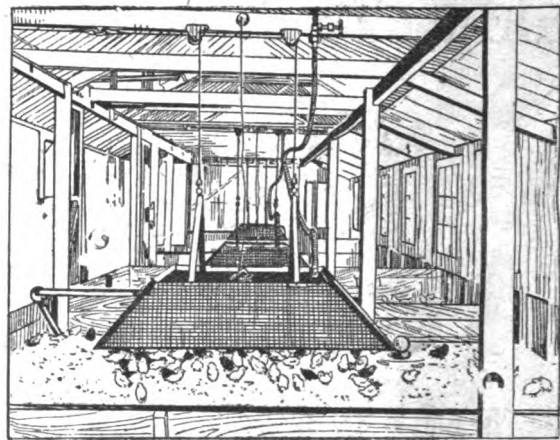
Terms:—Cash with Order.

*Don't omit to call at our  
Stand, No. 24, at the Grand  
International Show, Olympia,  
December 9th to 12th. We  
shall be glad to answer your  
enquiries, and will have  
Samples of our Foods on  
show.*

**Carr, Macdonald & Cleveley,  
Ltd.,  
Britannia Mills,  
HEATHFIELD, SUSSEX.**

# THE PURLEY BROODER

**OLYMPIA  
STANDS  
149 & 150**



**OLYMPIA  
STANDS  
149 & 150**

The Scientific Solution of the Poultry  
— Farmer's Greatest Problem —

WRITE FOR ILLUSTRATED PAMPHLET TO

**RICHARD CRITTALL & CO., LTD.,  
43, BLOOMSBURY SQUARE, LONDON, W.C.1.**

## REDUCED PRICES.

### CLARK'S PURE SUSSEX GROUND OATS.

#### GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s.	d.
7lb. Bags	...	2 3
12lb. Bags	...	3 9
28lb. Bags	...	7 6
56lb. Bags	...	12 9

#### PRICES PER CWT.

	s.	d.
1 cwt.	...	25 6
3 cwt.	...	24 9
6 cwt.	...	23 6

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,  
56, HIGH STREET,  
LEWES, SUSSEX.**

## CHAMPION POULTRY FOOD

We shall be pleased to see old  
and new friends at our

**STAND No. 85  
GRAND INTERNATIONAL SHOW  
OLYMPIA,**

December 9th to 12th.

A full range of Samples will be  
on view, and our Representatives  
will be pleased to answer  
enquiries and offer advice.

*Samples and Price Lists free  
on application to:—*

**Wm. BRINKLER & SONS, Ltd.,**

Poultry Food Dept.,  
**5, CLAPHAM GRANARIES,  
LONDON, S.W.4.**

Telephone: Battersea 211.



# Striking Testimony to the Feeding Value of

# BYCOLLA

REGD

## Concentrated White Fish Meal Impregnated with Pure Cod Liver Oil

**T**HE adjoining copy of an entirely unsolicited letter from an expert with 17 years' experience in poultry raising, is a striking testimony to the feeding value of "Bycolla." This letter completely substantiates every claim that we make for the nutritive and tonic powers of "Bycolla." It proves, too, that "Bycolla" not only promotes quicker growth in both young chicks and adults, but that their growth is better, i.e., without loss of stamina. When you use "Bycolla," therefore, you may have every confidence that it will benefit your poultry, because its value has been proved over and over again by experts like Mr. Hanson, and also by scores of poultry keepers with but small stock. Why not give "Bycolla" a trial? Get a small bag to-day, and note the remarkable improvement in the health and fertility of your birds.



Penn Hall Poultry Farm,  
Penn,  
Near Wolverhampton.

Dear Sir,—  
Your letter of November 2nd received for which many thanks. I have been using "Bycolla" Fish Meal all this season, and have found it splendid, both for young chicks and adults. I raised nearly 8,000 chicks on it this year, and I never saw stronger birds, or better and quicker growth in my 17 years' poultry experience. I recommend it to every one I know in the business. I have been getting it from . . . whom I asked to stock it for me. The EXTRA EXPENSE is WELL WORTH it—so many Fish Meals are worthless.

Yours sincerely,  
E. T. HANSON.

## FEED YOUR STOCK WITH BYCOLLA AND ENSURE MORE EGGS—BETTER BIRDS

"BYCOLLA" is extremely economical, one ounce per day being sufficient for six hens. This works out to a cost of 0.04 of a ld. per day (less than 1/6th of a farthing) per bird. No other fish, meat or blood meal, condiment or spice should be given.

NOTE.—Not more than 10 per cent. of "Bycolla" should be added to each mash to ensure best results. The analysis of "Bycolla" shows a very high proportion of Food Units, viz.: 154, as follows: Albuminoids, 60 per cent.; Oil, 8 per cent. minimum; Salt, 3 per cent. maximum.

*We guarantee the only oil added  
to Bycolla to be Pure Veterinary  
Cod Liver Oil.*

Terms:—Cash with Order.

**25/- per  
cwt.**

Bags Free. Carriage Paid.  
England and Wales.

Also Sold by Dealers in 7-lb. Bags.  
Price: 2s. 3d.

# BICOL Ltd., 53, Victoria St., GRIMSBY





**The way to get the business for your  
EGGS FOR HATCHING AND DAY-OLD CHICKS NEXT SPRING.**

Come and Fetch it from the

**Midland Poultry Festival, Bingley Hall, Birmingham,  
December 28th, 29th and 30th, 1922.**

**THE BEST MARKET FOR POULTRY BREEDERS OF QUALITY.**

READ what Exhibitors who attended the Midland Poultry Festival in previous years have to say:—  
From Lady Anderson's Poultry Farm,

**REAL BUSINESS.**

Harrold Priory,  
Sharnbrook, Beds.  
November, 1922.

Dear Sir,—

Kindly send me full particulars of the forthcoming Midland Festival. All being well, I propose taking additional stand space than I did last year. Results were excellent, and, apart from the business done at the Show, A GOOD LOT OF ORDERS FOLLOWED LATER. I was well satisfied. I found the people who visited the Festival to be very keen and enthusiastic. I wish you and the Federation every success.

Yours faithfully,  
For Lady Anderson's Poultry Farm,  
(Signed) A. M. AGENT.

FROM Mr. A. J. Gould, Avondale Poultry Farm, Stratford-on-Avon.

November, 1922.

Dear Sir,—

Please send me Schedules, Entry Forms, and Breeders' Table Application Form for the Third Midland Festival. Last year I had two tables, and had TO REFUSE NO END OF ORDERS. I find this the most satisfactory way of advertising, as one meets actual customers, which is much preferable to correspondence.

Yours truly,  
(Signed) A. J. GOULD.

**This is the Cheapest Way to Advertise. Let Your Customers know you.**

**A Poultry Breeders' Display Space is Cheap, costing only £2 2s. 0d. (Table and Fittings provided).**

**Birmingham is the Central Market of the Kingdom, The MECCA OF THE MIDLANDS.**

Send an Exhibit, and make an entry in our Utility Classes.

**THE BEST JUDGES.**

**GOOD PRIZE MONEY AND SILVER CHALLENGE CUPS.**

**Dr. Charles Crowther, B.S.C., Ph.D., Principal of the Harper-Adams' College, will open the Second Day's proceedings.**

The Harper-Adams' College are sending **Special Educational Exhibit** under the specialist supervision of **Mr. H. Howes.**

**Lectures and Demonstrations are continuous each day by acknowledged Authorities.**

**COCK GROWING COMPETITIONS.**

**Poultry Trussing and Egg Cookery Demonstrations, and Practical Lectures by Famous Lady Chef, who, as a Poultry Expert, will lecture on How to Prepare Light Breed Cockerels for table condition, and dressed ready for the table.**

**NATIONAL POULTRY INSTITUTE FUND.**

In response to Mr. Edward Brown's Appeal, we have included Special Gift Classes in both Utility and Exhibition Sections, the entrants to be sold by auction for the benefit of the above Fund. Mr. Brown will also speak previous to the Auction Sale. Breeders, please send if only one exhibit to swell the the numbers and help the Fund.

Stand Application Forms, Schedules, and Entry Blanks sent on application to the **Hon. Organiser,**  
**ALBERT H. BRAIN,**  
Poultry Service, West Bromwich.  
Phone: West Bromwich 599.

NOTE.—Utility Shows may, or may not, be regarded by Breeders as to their entire good from the Industry's point of view, but to encourage the keeping of the best kind of laying stock, among Suburban and Backyard Poultry Keepers in the industrial towns and districts, Utility Shows have proved themselves the greatest boon. Without the Utility Show the average householder in our large cities might still have been ignorant as to what were the best kind and type of fowl to keep for laying. Utility Poultry Shows stimulated interest and create enthusiasm. Let them know further by encouraging Utility Shows, and who breeds the best laying stock, by being an exhibitor. There is no finer way of keeping your name before the buying public than this, and no better opportunity for getting new business than

**The Third Midland Poultry Festival this coming Christmas.**

not want to roam far afield, neither are they fitted by nature for so doing, whereas the Indian Runner is, by her nature, a traveller. She does not much mind doing without water, but she does like to travel in search of tit-bits. She is built to run, and if she has no where to run she naturally misses it, and equally naturally does not produce, as a general rule, as she otherwise would do.

I do not mean to "crab" the Khaki-Campbell, or, indeed, the Buff Orpingtons. Both have done splendidly at Bentley, and evidently some strains of them are magnificent layers, but at the same time I would point out that in fairness to the Indian Runners, we must admit that if they have not, as a rule, done quite so well at Competitions, it may easily be because Competition Conditions do not suit them as well as it does heavier and less nervous breeds.

We think Mr. Shaw is mistaken as to visitors being allowed to walk round the duck pens at Bentley; on the contrary, we believe it is strictly forbidden.—(Editor).

#### POST-MORTEMS.

F. Massicks.—The bantam had considerable congestion of the kidneys. The other organs were healthy. You give me no particulars of her illness, but I think she must have had an internal chill. She had also many parasites, called *Saminosiptes Cysticola*, under her skin. These are said to do no harm. But so little is known of them that one can't be so certain of this.

D. H., Essex.—The duck had a decomposing soft-shelled egg loose in the abdomen. It had probably been retained for some time. She could not pass it, because it was not in the passage. She had also peritonitis.

If you have no foxes in your neighbourhood, there is no reason why your ducks should not continue to sleep where they have been lately. It is not necessary to have a good house for them. But if there be any foxes about, then a closed house is necessary.

Ducks require more animal food than hens do. So, unless they can find some in their run, you should put a little extra fish meal in their mash.

R. D. Wilson. You did not say to which paper the report was to be sent. Your bird had ruptured a yolk sac internally. Her kidneys were also enlarged and blocked with the discharge. I think the large feed of beans you mention probably had something to do with the trouble. Beans and peas contain a large amount of protein, just as fish meal does, and if you gave a large feed of beans, in addition to the usual animal feed, you may have given more than the kidneys could get rid of.

Mrs. Connor.—Your bird died from internal haemorrhage. This was caused by a tear in the spleen, which was very large, and had a growth inside.

"Alpha." Your bird had haemorrhage into the ovary and congestion of the lungs. The intestines and gizzard looked all right. I did not see any particular reason for supposing that the cause of death was the

fish meal you mention, but should be interested to hear the report on it.

Mrs. Ruddock. The cockerel had a large tumour (probably cancerous in his left testicle) (the male organ), from which haemorrhage had taken place. The right testicle was rudimentary. He would have been useless for breeding purposes, as he could not have fertilised eggs.

F. L. Talbot. The pullet had a large growth attached to the liver, which was adherent to the breast-bone. It appears to be an old abscess, which must have been there for a long time.

A. Cartwright. The cock's kidneys were much enlarged and congested. There was slight congestion of the intestines. I think he had probably had an internal chill.

A. W. Gieve. The hen had cancerous growths in liver, kidneys, spleen and intestines. There was also a cancerous tumour in the pelvis.

I should be much obliged if any of my correspondents who intend to go to Olympia would make an appointment with me there, so that we can meet. I hope to be there each afternoon.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### TWENTY-SIXTH LIST.

Carried Forward ...	£1,114	12s.	6d.
G. A. L. ...	...	40	0
Dr. Clayton ...	...	30	0
Wilfrid Roberts ...	...	2	6
G. C. ...	...	2	0
J. G. Jones (Discount) ...	...	1	9
Lt. E. Nightingale, R.N. ...	...	5	0
H. Williams ...	...	1	6
A. Grover ...	...	2	6
R. C. Connal ...	...	2	0
Ronald C. Campbell ...	...	20	0
Milestone Egg Farm (2nd			
Donation)	20	0	
H. S. Harlock ...	...	5	0
Hunt, R. L. ...	...	7	6
G. T. Fraser ...	...	10	0
Miss G. N. Holme ...	...	2	6
Brig.-Gen. Maconchy ...	...	20	0
D. G. Worts ...	...	10	0
"Anonymously" ...	...	2	6
W. T. Motley ...	...	15	0
Mrs. Johnston (Discount) ...	...	6	9
G. N. Blakeway ...	...	5	0
Searle, W. C. ...	...	2	6
Fairhurst and Wilkinson			
(Discount)	9	7	
Major R. B. Hall ...	...	21	0
The Marmite Food Extract			
Co., Ltd.	100	0	
Total	£1,131	17	7

## NATIONAL POULTRY INSTITUTE FUND.

TOTAL SUM RAISED, £4,547 16s. 7d.  
S.P.B.A. CONTRIBUTION, £1,131 17s. 7d.

We have received a cheque value £100 from Mr. Brook, accompanied by the following letter:—

Hoddam Castle,  
Ecclefechan, N.B.

"Dear Sir,—I see in "Eggs" that the S.P.B.A. has raised the £1,000, and I have pleasure in enclosing my cheque for £100 as promised. I hope the Institute will materialise, and that you will not have to send the cheque back to me.

Yours faithfully,

E. J. BROOK."

Mr. Brook's generous offer was made conditionally on the full sum of £6,500 being raised.

## A NOVEL SUGGESTION.

A reader makes the novel suggestion that everyone should agree to give one penny for each egg laid by him or her hens on a specified date. This is a novel suggestion, which perhaps our readers would like to adopt. How many will promise to send a penny per egg to the Fund for every egg laid by their hens on Christmas Day?

New Offers are: One dozen old pullets, Light Sussex Brown Leghorn cross, delivery first or second week in April. This offer is made by Mr. Charsley Roberts, who tells us this cross is most successful, the cockerels realising the same price per lb. as his L. Sussex. The pullets are splendid layers, and mature very quickly.

## SOME GENEROUS OFFERS.

We call attention to Mr. Edward Brown's offer published in another column. This should interest our readers, as Mr. Brown's experiences have been unique, and his observations of Poultry Keeping in other lands interesting and instructive.

Mrs. Wyndham Malet, a "Dale-Vita" duck house. An illustration and description appeared on the front cover of 22nd November issue. We draw attention to the fact that the house is fitted with the "Vita" trap-nest front, and it has five sections. The price is £5, carriage paid; boarded floor 12s. 6d. extra.

Mr. Sydenham Hannaford offers eight large Pioneer Hovers at £2 10s. each. These hovers are so well-known that it is unnecessary to say anything about them.

A Guildford Reader offers Black Leghorn cockerels, guaranteed to be bred from trap-nested hens with records of 210-240, price 15s. each, 5s. from each bird to go towards the fund.

A Lancashire Reader offers one White Wyandotte cockerel from a pen with records of 230 to 240, March hatched. Sire's dam 503 eggs in two years, non-broody.

One Ancona from a pen with records of 208 to 245, March hatched. Sire's dam 277.

Also eight White Wyandottes and eight Anconas, from same pens as above, price £1 each for the Wyandottes, and 15s. for the Anconas, 2s. 6d. on each bird for the fund.

Mrs. Kelly offers sitting of Khaki-Campbell ducks eggs from a pen which averaged 300 eggs each to August 31st.

Miss Moncrieff offers one sitting of duck's eggs. The drake is direct from Mrs. Ballard, and the dam laid 311 eggs in the year.

Exchequer Leghorn cockerels (14), March hatched, 15s. each; 2s. 6d. from each bird sold to be given to the fund.

Two Exchequer pullets, due to lay end of this month, one light and the other dark.

Mrs. E. Lewis offers four sittings of White Wyandotte eggs, delivery in February, from pen with guaranteed records of over 200, mated to Barron cockerel, from a 245-egg hen.

Miss Harrison-Bell offers two pure-bred Khaki-Campbell drakes, hatched March this year, from pen sisters to her Bentley pen, containing "Madam Sequence," who laid 171 eggs in 171 days, and 240 eggs in 44 weeks.

## A CHALLENGE.

A Derbyshire Reader, who has subscribed £5, will make it £10 if 200 of our readers will give £5, or 100 will give £10 each, to make another £1,000, so that the total subscribed to the fund by members of the S.P.B.A. shall be £2,000. It is a sporting offer, an ambitious one. The support already given has been most generous. Is his suggestion an impossible one?

## Correspondence.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

To the Editor of "Eggs."

Dear Mr. Newman,—Permit me to offer the Scientific Poultry Breeders' Association my warmest congratulations upon having reached the sum of £1,000 in contributions for the National Poultry Institute and Research Station. This is a further proof of your Society's progressive spirit and realisation of the important place which Education, Experimental Work and Research must hold in connection with our own branch of animal husbandry, wherein by the greater opportunities and the methods which are necessarily adopted, has special problems of its own to meet.

I am anxious to do something to help in the completion of your share of the Fund. Having given in various ways as much money as I can afford.

another proposal has suggested itself to me, namely, that I have a few copies left of my various reports on the Poultry Industry in different countries. These include the following:—

Report on the Poultry Industry in America (1906).

Report on Poultry Industry in Denmark and Sweden (1907).

Report on the Poultry Industry in Belgium (1910).

Report on the Poultry Industry in Germany (1912).

Report on the Poultry Industry in Wales (1915).

Report on the Poultry Industry in the Netherlands (1921).

In addition, there are a few copies remaining of the Report of the Second Conference held at Reading in 1907.

Of the above, I can make out sixteen complete sets. If any of your Members would like these, and will contribute one guinea to the National Poultry Institute Fund, I shall be pleased to send a set, and if it is desired will append my signature as the author on the title page of each of the National Reports.

Should you accept this offer, those who desire to respond should send their guineas and order to you, and if you will let me know, they will be forwarded accordingly.

Yours sincerely,

EDWARD BROWN, Hon. Sec.

21st November, 1922.

#### TESTING INCUBATOR THERMOMETERS.

To the Editor of "Eggs."

Sir,—There is one duty which every poultry-keeper with an incubator should not neglect, for on it depends the success of his hatching in the coming season. It is the thermometer to which I refer, and it may surprise many to know that this instrument has a bad habit of altering its reading from time to time. It should, therefore, be tested by a reputable firm of makers to discover whether any error exists, and this should be done at once before the season's rush commences.

It may interest readers to know that I have just received back from the testers a number of my thermometers—123, to be correct, and 20 per cent. of them have errors. Imagine the number of eggs and their value, all being wasted just because the thermometers, which were correct when I bought them, now being a little out. It is a question of a very little in many cases, some being only  $\frac{1}{2}$  a degree, another 1 degree, but one was as much as 3 degrees out at 103. Several were proved correct at 103 degrees, but very much wrong at 95 degrees; and so the variations occur.

Everyone will see how advisable it is to make certain that their thermometers are registering true, and not leave their future success to chance.

Yours, etc.,

E. BOSTOCK SMITH.

"Heaslands," Hayward's Heath, Sussex.

30th November, 1922.

#### LARGE OR SMALL UNITS.

To the Editor of "Eggs."

Dear Sir,—Please allow me to thank you for your comments in this week's "Eggs" on my letter on the Small Unit System.

I had hoped that the expression I used, "Neither helpful nor practical, to which you take exception, if taken in conjunction with the rest of the letter would hurt no one's feelings. Believe me it was very far from my intention to do so. (We are sorry if any comment we made conveyed the impression that our correspondent's remark had hurt anyone's feelings; we did not intend to convey such an impression.—Editor). May I also add that my mind is by no means made up on this subject. I fully perceive the dangers and drawbacks inherent in the "Large Flock System." I used "Hanson System" in my letter, in the belief that the two are practically identical. With regard to what you write about the laying houses, surely one would have to proceed as warily through two houses, 90ft. long, or four 45ft. long, as through one of 180ft.? The difference in time taken would be in the time spent in entering the extra yards and houses. You further state that the labour in rearing would be the same from six weeks to laying age, as between the large and small unit. Have you not overlooked the fact that in the Hanson System temporary runs of low wire only are run round each colony house, which after a few days are taken down, the chicks being then run as one floor. There must be a great saving of labour as compared to separate runs to each house, and it gives the chicks the advantage of roaming over a large area. I should be delighted to think that the small unit is practical for purely Commercial Egg Farm, and that in your opinion it is so, makes me feel that somehow it is possible. It is obviously the ideal from the bird's point of view, provided sufficiently large runs can be given, but in spite of much thought and discussion, I cannot see how even a moderate profit could be made with it by the Commercial Egg Farmer.

Yours truly,  
"PUZZLED."

#### Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, DECEMBER 1st, 1922.

GRAIN AND FEEDING STUFFS.—British wheat meets a steady trade, the fairly liberal offerings changing hands at very much the same prices as last week, about 45s. per 504 lbs. Spot supplies of imported wheat are small, but trade is of only a moderate character and prices have an easier tendency. Only the very best samples of British barley are saleable, and for these lower prices have to be accepted. The average price of malting barley is 42s. per 448 lbs. compared with 44s. last week, while ordinary grades are neglected, and maltsters appear to have satisfied their requirements for the present. Feeding barleys are also distinctly cheaper. There is only a limited demand for British oats, and prices are lower in London, but imported oats sell at about late rates. Maize is cheaper at Bristol and Hull, owing to more liberal arrivals, but at other markets value are about maintained.

Bran remains scarce and firm, but coarse middlings are offered more freely and are obtainable at lower figures, averaging slightly under £8 15s. per ton.

**MILLERS' OFFALS.**—Bran (British): Hull, £7 7s.; Liverpool, £7 5s.; London, £7. Broad Bran: Hull, £8 17s.; London, £7 17s. Fine Middlings (Imported): Liverpool, £9; London, £9 12s. Coarse Middlings (British): Bristol, £9 10s.; Hull, £8 12s.; Liverpool, £8; London, £8 12s. Pollards (Imported): Bristol, £7 15s.; Hull, £6 15s.; Liverpool, £6 15s.; London, £7 7s. Rice Bran: Bristol, £8 5s.; Liverpool, £7 15s. **MEAL.**—Barley Meal: Bristol, £10 10s.; Hull, £10; London, £10 15s. Maize Meal: Bristol, £11; Hull, £10 5s.; Liverpool, £10 5s.; London, £10 10s. Maize Germ Meal: Bristol, £10 15s.; Hull, £10; London, £10 10s. Maize Gluten Feed: London, £9 10s.

#### EGGS AND DEAD POULTRY.

Eggs are decidedly cheaper, prices averaging 3s. 7d. as compared with 3s. 9d. the previous week. Dead Poultry shows little material alteration. Supplies of live poultry have been hardly so heavy this week and demand has been good, young fowls realising up to 8s. each. Week-end prices: Eggs, English New Laid, 34s., 36s.; Irish, 26s., 28s.; Dutch, 26s., 34s.; French, 25s., 32s.; Danish, 26s., 30s.; Australian, 23s.; Egyptian, 12s. 6d. Dead Poultry, per lb.: Surrey Fowls, 1s. 9d., 1s. 6d.; Irish, 1s. 4d., 1s. 0d.; Others, 1s. 2d., 1s. 6d.; Ducks, 1s. 5d., 1s. 2d.; Geese, 1s. 2d., 10d.; Turkeys, 1s. 6d., 1s. 2d.

#### EGGS.

Per Doz.—Ashford: First, 3s. 8d.; Second, 3s. 4d.; Birmingham: First, 3s. 8½d.; Second, 3s. 6d. Carlisle: First, 4s. 0d. Chelmsford: First, 3s. 7½d.; Second, 3s. 4½d. Denbigh: First, 3s. 8d.; Second, 3s. 6d. Derby: First, 3s. 10d. Dorchester: First, 3s. 3d. Exeter: First, 3s. 6d. Hereford: First, 3s. 0d. Hull: First, 3s. 9d. Ipswich: First, 4s. 0d.; Second, 3s. 9d. King's Lynn: First, 3s. 6d.; Second, 3s. 0d. Lincoln: First, 3s. 9d. Llandilo: First, 3s. 9d.; Second, 3s. 6d. Newport (Mon.): First, 4s. 0d.; Second, 3s. 9d. Norwich: First, 3s. 4d. Oswestry: First, 3s. 9d.; Second, 3s. 7d. Penzance: First, 2s. 10d.; Second, 2s. 9d. Salisbury: First, 3s. 0d.; Second, 2s. 11d. Shrewsbury: First, 4s. 3d.; Second, 4s. 0d. Skipton: First, 4s. 0d. Taunton: First, 3s. 6d. Truro: First, 3s. 2d. York: First, 4s. 0d.; Second, 3s. 10d.

#### FOWLS.

Per lb.—Birmingham: First, 1s. 2d.; Second, 10d. Derby: First, \*4s. 6d.; Second, \*2s. 9d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Ipswich: First, \*6s. 6d.; Second, \*4s. 6d. Lincoln: First, \*5s. 0d.; Second, \*3s. 6d. Llandilo: First, 1s. 7d.; Second, 1s. 0d. Newport (Mon.): First, 1s. 6d.; Second, 1s. 2d. Norwich: First, \*6s. 9d.; Second, \*5s. 6d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 2d. York: First, \*6s. 9d.; Second, \*4s. 6d.

#### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, \*5s. 9d.; Second, \*4s. 9d. Exeter: First, 1s. 6d.; Second, 1s. 4d. Hereford: First, 1s. 3d. Lincoln: First, \*6s. 0d.; Second, \*4s. 6d. Llandilo: First, 1s. 7d.; Second, 1s. 0d. Newport (Mon.): First, 1s. 5d. Norwich: First, \*5s. 0d.; Second, \*4s. 0d. Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First, \*7s. 3d.; Second, \*6s. 0d.

\* Per Head.

#### APPLICANTS FOR MEMBERSHIP.

Widdas, Jas., Orchard House, Escombe, Bishops Auckland.  
Loughrey, Miss A., Binion House, Clonmany, Co. Donegal, Ireland.  
Harvey, O. F., "Ridge House," Thundersley Park Road, Thundersley, Essex.  
Williams, Thomas, 82a, Cox Green Road, Dunscair, Nr. Bolton, Lancs.  
Ellwood, Lt.-Col. B. P., c-o Grindlay and Co., 54, Parliament Street, London, S.W.1.  
Worsley, Mrs. R. L., Medical Officer's House, H.M. Prison, Leeds.  
Sanderson, Edward, Elstronwick, Preston, Hull.  
Digby, Harvey A., The Croft, Bulpham, Nr. Romford, Essex.  
Thomas, William Hendy, The Bungalow, Widmerpool Lane, Keyworth, Notts.  
Hunt, R. L., Mayfield House, Calveley, Tarporley, Cheshire.  
Scott, Capt. W. Maddin, Lisonally, Omagh, Co. Tyrone.  
Wilson, Wm., 81, Rosendale Road, Burnley, Lancs.  
Miller, Alfred, Westwood, Hillmorton, Rugby.

Sanderman, J. M., Ardlinnhe, Bearsden, Glasgow.  
Beeley, W. H., The Woodlands P.F., Beadcy, Grimsby, Lancs.  
Wilson, Jas., Ashgrove, Blackbridge, West Lothian, N.B.  
Cook, Arthur W., Corringham, Nr. Gainsboro, Lincs.  
Gladwin, Sydney H., 44, Treevan Road, Addiscombe, Croydon, Surrey.

Manson, Stanley Fleming, 13, Hillington Garden, Cardona, Glasgow.

Stones, John Stewart, High Causeway House, High Street, Castle Donnington, Nr. Derby.

Motley, W. T., Bilgrove, Enham, Andover.

Todd, Mrs., Warren House Farm, Brampton, Nr. Carlisle.

Milthorn, Wm., Ironmonger, Brampton, Nr. Carlisle.

Paterson, —, Poultry Farm, Carlton, Nr. Carlisle.

Fraser, Dr. M., Englethwaite Hall P.F., Englethwaite, Nr. Carlisle.

Spurway, Mrs. R., The Manor House, Thurmaston, Nr. Leicester.

Holland, Mrs. L., Chase Farm, Fernhurst, Sussex.

Berry, C., 15, Butts Avenue, Leigh, Lancs.

Baillie, Robert Samuel, Beulah Terrace, Toll Street, Motherwell, Scotland.

Hams, O., Green Lane, Challock Ashford, Kent.

Gillanders, Geo. B., St. Leonards, Ringwood, Hants.

Lamb, H. W., Altrington, Wolverhampton.

Lewis, Miss Ellen, Coldham Farm, Thunboerne, King's Lynn, Norfolk.

Woodhouse, Alan L., The Warren, Moulscumb, Brighton.

Prestwich, Otto, Ashleigh, Booth Road, Altrincham, Cheshire.

Procter, Herbert, 3, Broad Street, Farsley, Nr. Leeds.

## Getting Out the Chicks.

### Miss N. H. BELL, N.U.P.S., Lectures on Incubation.

Speaking at "Heaslands," Hayward's Heath, last Friday evening, on the subject of Incubation, Miss Nellie H. Bell, of the N.U.P.S. Council, showed that she had studied the question most thoroughly, and, further, had had a very wide experience of it. Mr. E. Bostock Smith, in introducing her, said there was probably no one in this country who was more capable or knew more about poultry incubation, both natural and artificial, than Miss Bell. Everyone must appreciate the mystery of incubation and hatching which is now carried on in such large numbers, and regarding which there is still such a great deal to learn. At the same time it is a most interesting subject, particularly as there is a certain amount of speculation about it. The extent of this, of course, depends largely on the skill of the operator, but there is always sufficient element of chance to whet our sporting instincts.

The older I get, said Miss Bell, the more I feel the necessity of increased knowledge on this subject. In the majority of cases people are most misguided, and this is evidenced by the fact that they put goose eggs under a hen and call it "natural incubation." Actually it is not so, but only semi-natural. To be quite natural, a hen chooses her own mate, selects her own nest, and hatches her own eggs.

If anyone is going in for poultry as a business such as commercial egg farming, they must have incubators. The beginner in incubation, however, should try hatching, first of all under a hen, and watch how she does it, because in this way a great deal can be learnt. She will sit very tight on them at the start, from which one may deduct that eggs do not require so much airing as is generally supposed to be necessary. Therefore,



incubators should not be opened for thirty-six hours after the eggs are put in. This will give the germ time to settle down, and to start growing.

There is another point. The hen knows perfectly well how long the eggs should be cooled, and one will find that as the time for hatching draws nearer, she lets them cool much longer than in the early stages, and she also varies the time according to the weather and season. Cooling can easily be overdone in cold weather. The temperature of the room which sometimes vary very much indeed, must always be considered, and the time of cooling must depend on that. Many early hatches are spoiled by neglect in this direction.

### THE QUESTION OF MOISTURE.

I am not in the least orthodox on this point, said Miss Bell. The incubator maker's job is to turn out a box which will reasonably hatch eggs, she said, but the question is, how many of them have tested the machines by actually hatching. When it comes to moisture it is questionable whether the man who makes the incubator has ever thoroughly tested the matter.

Professor Craddock, when speaking at Bristol some time ago, said it was almost impossible to give too much moisture, but I totally disagree with him, said the lecturer. With most people it is safer not to put any moisture in until the twelfth day, and when this is done it is useful to put a little peat moss in the tray, which acts as a deodorizer, thus eliminating the bad smell and also preventing the tray turning green.

Our domestic fowl comes from various races. One of her ancestors was the Shanghai fowl, a bird which scraped up a mound on the ground, and led her eggs on that, the reason being that the earth was marshy and she wanted to keep the eggs drier. She did not trouble about being seen, and there were no wild beasts to trouble her. Another common ancestor was the Game Fowl of India, which made a nest in the trees well away from molestation. Coming to the White Wyandotte one must be struck by the comparative difficulty it is to get this breed into a trap-nest, and yet it is a very docile bird. On the other hand, the Leghorn, which is a scarey being, will readily enter a trap-nest, —she evidently likes a dark place where she cannot be seen. From these things we learn the same fact, that a wild bird which went into the trees to lay wanted a dry nest, the same as the tamer kind which scraped up a mound on the ground for a nest. They did this on the question of moisture, and for their own comfort, and it is obvious that eggs do not require much moisture. If anyone feels impelled to put moisture in from the first day to balance things they must air the eggs all the longer. For the first 36 hours I do not open the machine at all, said Miss Bell, but I never put in moisture at the commencement. The remainder of the first week I turn the eggs morning and evening, but if I had a self-turner I should not open the machine, but turn more often. After the first week I cool the eggs until they are just warm to the hand, which may be a minute or two, or even five minutes, and in the warmer weather they are sometimes left for nearly an hour. At this period of the hatch, particularly in warm weather, some people do not air the eggs enough, and Miss Bell related an incident when she left the drawer

open by accident all night between the eighteenth and nineteenth days. She was very much concerned about it, but as there were only three days to go she decided to finish the hatching process. To her surprise the results was remarkably good. A pupil on her farm happened to do the same thing, and again the hatch turned out extremely well, and even a third time it occurred with just as good results, which drove her to the conclusion that eggs were not aired enough towards the end of a hatch.

It is most noticeable with a hen that she sits very tight at the commencement, but after the tenth day, and particularly towards the end of the time she appears to desert her nest, wandering off all over the farm, much to the annoyance of the owner, who, doubtless, tries all manner of means of getting her back to the nest. She will, however, eventually settle down, and all will go well, which just shows how much more she knows about her job than the individual. In the same way with a machine, the chances are that the hatch will not be so good if one worries and fusses over it.

### FRESHNESS OF EGGS.

Everyone who has had experience with hatching knows that a hen can sometimes hatch eggs which are even six weeks' old, partly no doubt due to animal magnetism in the broody, and hundred of years' experience handed down from her ancestors, but there is no machine on earth which will do the same. Eggs of varying freshness will hatch at different times, but when a hen "steals" her nest the chicks usually all come out at the same time. Decomposition commences when the germ inside the egg—it is well-known that infertile eggs keep better than fertile ones, and the older the germ the more difficult it is to hatch. Where a hen makes her own nest in a hedge the last egg laid may be a fortnight old, but going each time as she does to lay and sitting on the eggs possibly an hour, causes the germ to grow ever such a little, but it is this "suspended animation" which enables all the eggs to hatch at one time. It is advisable in putting eggs into an incubator to have them as fresh as possible, and not more than a week old.

The question of smooth and rough shells does not affect the hatchability of the eggs, said Miss Bell, but many have some bearing on the question of moisture as a rough shell egg is more porous. Where one does not put moisture in, however, this point does not enter.

An item which is frequently overlooked is that in cold weather the air circulation is much greater than when it is hot, and if water is being added, more is necessary in the cold weather, as the evaporation is greater. Miss Bell mentioned that she puts wads of cotton wool in the ventilation holes of her machine to prevent evaporation, and it is necessary to do this if water is not placed in the moisture trays.

### THE DEAD-IN-SHELL PROBLEM.

It is noticeable that the dead-in-shell are greater in the early months of the year, particularly in January and February than in March and April, which coincides with the period when trees are in leaf. In certain quarters it is firmly believed that growing plants in an incubator house will very materially assist incubation, the reason given being that the plants give off

carbonoxide. Under a hen there is a good deal of this, but in an incubator there is none. In the Egyptian incubator earth ovens, where the heat is generated by burning dung and straw, there is plenty of carbon-monoxide, and although the eggs travel long distances, a 90 per cent. hatch is considered to be the usual result.

#### BROODINESS.

Broodiness in a hen is a fever, and her blood is at a temperature of 107 degrees, but this gradually subsides. The germination of the chick creates heat and so, as the hen loses heat the egg increases it. With hot-water incubators it is noticeable in a similar way that towards the end of a hatch the water is much cooler if everything is going well.

When the first squeaking is heard in the eggs, the machine must not be touched for at least twenty-four hours. At this period with a hen it will be noticed that she sits very tight, and although one may think that she does not want you to see her chicks, there is another reason for it. To open a machine during the hatching out period means that the moisture and heat escapes from the machine. The loss of moisture will cause the membrane surrounding the chick to get tough and hard, making it almost impossible for a chick to leave the shell; in fact, the chick gets dry and sticks to the inner side of the shell. Glass door to incubators are a source of trouble, because they tempt one to open the drawer, and help the youngsters out.

#### TEMPERATURE IN INCUBATORS.

Miss Bell mentioned that she runs her incubators at 103 degrees to 104 degrees. If it is too high at the beginning it will cause the yolks to break, and if too high at the end the chicks may come out with crossed beaks, sprawly legs, and possibly before the whole of the yolk is absorbed. On the other hand, a too low temperature will delay the hatch, and the chicks will come out sticky and weak.

If the temperature ever goes up, and there is difficulty in lowering it, the lecturer said she instantly puts water in the moisture trays, and removes the wads from the ventilation holes.

In answer to several questions which were put to her Miss Bell said she considered testing eggs should not be done more than twice, on the 7th and 14th days. Dipping eggs in methylated spirit minimises the risk of chicks getting bacillary white diarrhoea or spergosis, and she herself always followed this practice. In hot-water machines, when the drawer is out, the lamp should be lowered or withdrawn to prevent the heat of the water rising too high. Earth floors for incubator houses have proved the most satisfactory with the speaker, although concrete should be quite suitable. From experience the lecturer said she found with a hot-air machine that it did not work well on a wooden floor with her system of not putting in water, whereas the same machine gave excellent results in a house with an earth floor. Chicks are ready to go in a brooder immediately they can run about, which is between 24 and 36 hours after hatching.

A very hearty vote of thanks was accorded Miss Bell for her most instructive and interesting lecture.

### UTILITY SHOWS and ARTIFICIAL LIGHT.

By G. W. THOMPSON.

The singular inability of your three correspondents to accurately read a short note from me to you, and your comment thereon renders a reply from me unnecessary, but desirable because they raise other points demanding an answer. Mr. E. Poole misquotes (and clearly misunderstands) the advertisement, a copy of which I sent you. Capt. Whiteley misreads your note on the Sussex bird, and "Beauty with Utility" attributes the anecdote to me. If the powers of observation of Utility Judges are no greater than those of your three correspondents Utility Shows must verily be a deplorable business.

I would refer Mr. Poole, who believes Utility Shows are helping in the education of the Poultry Keeping public to "Beauty with Utility," who says:—

"Under other judges I have had the above results reversed, good birds being left out while the bad ones were successful."

I would also ask him to refer to last week's issue of "Poultry" (November 24th) for a full account of the Sussex pullet case.

Mr. Poole is mistaken. I should not have enquired why he did not "figure in the laying tests," but for the fact that he himself has prompted me. By his own letter he shall be convicted:—

"One of my specialities is breeding Utility birds for Competition in the Utility Show pen" (black is mine).

Now let us consider his qualifications.

"It is easy enough to breed hundreds of birds just to keep on for laying."

Comment is unnecessary. I can only suggest to Mr. Poole, who thinks breeding layers is such an easy game, that he should remain your pupil a little while longer.

As for Australorps (what a name). Are not the Australorpians and the Utility Showman one and the same?

I dealt fully with the folly of the Utility Show, from the standpoint of a breeder in the Dairy issue of "Eggs," 1921, and no champion on the Utility Show has yet faced this question. Is it not a fact that true breeding specimens can only be found by a breeding test? Since the majority of Factors for high production are Dominants, half those tested are likely to be impure breeders, until we have found our double dominants. One of the most important Factors is a Recessive (late autumn moulting), but until it is used to make a double recessive we shall still produce summer moulters. (A writer in the "N.P.J." recently asserted in his opinion neck moulting in pullets during their first winter was absent when true m/m birds were used, if true a most important discovery).

I will now ask for a little space for a reference to Artificial Lighting and Mr. Clayton-Smith. He secured last winter an average of 40 eggs per bird **with** lights. I secured an average of 51 **without** lights in the same period.

He hopes to be equally successful this winter. To date I am ahead of my last year's figure. Mr. Clayton-Smith thought 40 eggs most satisfactory. The Breeder from whom I obtained my birds thought my figure of 51 not good enough.

Mr. Poole, I trust, will not assert "it is easy enough to breed **hundreds** just to keep for laying at the rate of 51 for three winter months," and I do know that the breeder of them has put upwards of ten years of thoughtful work into the task. She has done well in a laying test, and so, too, I trust, will Mr. Poole.

Probably the answer to Mr. Clayton-Smith's reference to a daily fast of 16 hours in the darkest period of the year is to refer him to the fowl's crop. The bird does not fast for that period. It only ceases to pack the crop during those hours. At any rate my records show that the darker days of December do not try the birds' powers of endurance. There is only 5/14ths of an egg per bird shortage in December over October figures. If this catches the eye of Col. Hardy perhaps he will tell us to what extent, if any, the five to eight hours more rest in winter is a compensating factor in the case, and to what extent, if any, the extra hours of movement in the spring and summer dissipates the extra intake of food. It needs no particular knowledge of Nutrition to assert that some of it is expended by the additional exercise. I cannot trespass further on your space to answer Mr. Wainwright's invitation, I will write to him direct in the first instance.

G. W. THOMPSON.

## ARTIFICIAL LIGHTING.

To the Editor of "Eggs."

Dear Mr. Newman,—With reference to Mr. Clayton-Smith's very interesting article in your issue of 29th November, possibly my own experience may be of use to your readers. Last year I commenced to give my pullets a grain feed at 8.30 p.m. about the middle of November. They were April hatched birds, and, perhaps owing to a very hot and dry summer, were rather backward, showing little disposition to make a start. In a very short time there was a big increase in the number of eggs. Early in January I was compelled through illness to discontinue this, but the birds were not much affected by the change.

Hatching rather earlier this year and using Dried Separated Milk from the start, one or two pullets commenced laying at the end of August. Early in October they were doing quite well. Towards the end of that month a few sharp frosts gave them a set back. I at once concentrated their mash, and made some alterations in the roof over the perches, the effect of which was to make it much warmer. Egg production soon increased,

and is now so very satisfactory that I have not yet begun lantern feeding, though quite prepared to do so; should a really cold spell put them back.

It is hardly safe perhaps to dogmatise on such limited experience, but the following conclusions are probably not far wrong:—

1. The chief use of night feeding is to induce backward pullets to make a beginning.

2. Birds fall off as winter comes on, not only because the nights are getting longer, but because (1) they are losing a good deal of body heat through roosting in cold and sometimes draughty houses, and (2) are not consuming sufficient heat-forming food owing to the shortness of daylight.

(1) May be partially compensated for by putting a really warm roof above the birds.

(2) May be effected by giving more Maize in the grain and concentrating the mash, so that the fowls may be able to eat all the heat-forming food necessary to maintain the body heat and to leave a surplus for egg formation. Not only so, but the mash should consist of substances which are easily converted into egg-yolks.

The latter contain a protein known as ovotellin, very similar in composition to casein. Hence the great benefit of Dried Milk, Lecithin, a complex Phosphorus compound is also present in the yolk. Dried Yeast is rich in phosphorus, amongst its many good qualities.

The Yolk is full of fat. Maize Germ Meal contains this in digestible form.

The Egg contains an abundance of Vitamines A and B. Cod Liver Oil supplies the former and Dried Yeast the latter.

Of course, birds fed on concentrated mashes require careful watching.

F. W. HARDY.

Ealing.

30th November, 1922.



## Testimonial.

The Cock Inn,  
Birdwell,

Near Barnsley.

"Eggs" was recommended to me some months ago by a friend of mine, and after reading the paper a few weeks, I decided to cancel my order for other papers, as I found "Eggs" far more beneficial and helpful. On my demobilisation from the army I decided to start a commercial egg farm. I commenced with twenty-four layers, and in two and a half years I have been able to increase my stock to two hundred and fifty layers. I have always found "Eggs" most helpful, and have very much appreciated the articles therein.

I remain,

Yours faithfully,

H. F. EASTWOOD.

## Indian Runner and Khaki-Campbell Ducks.

By A. HAROLD PAINE—Thirty-Fifth Article

With the enlarged constitution of the Utility Duck Club, the renewed activities of the Buff Orpington Duck Club and the suggested formation of clubs for the Khaki-Campbell and the Coaley Fawn Ducks, it looks as if we are on the eve of great developments of these various breeds. The extraordinary and widespread interest that is being taken in utility ducks comes as no surprise to those who have been for so long acquainted with their powers as egg producers, nor when we consider that in both of the National Laying Tests at Bentley they have led everything. In the first Test to which ducks were admitted the Khaki-Campbell out-distanced all breeds, the first pen putting up a record that averaged 24.6 eggs per bird ahead of the 337 pens of all breeds of pullets and ducks competing; that was in 1920-21. In the 1921-22 Test Khaki-Campbells were first and

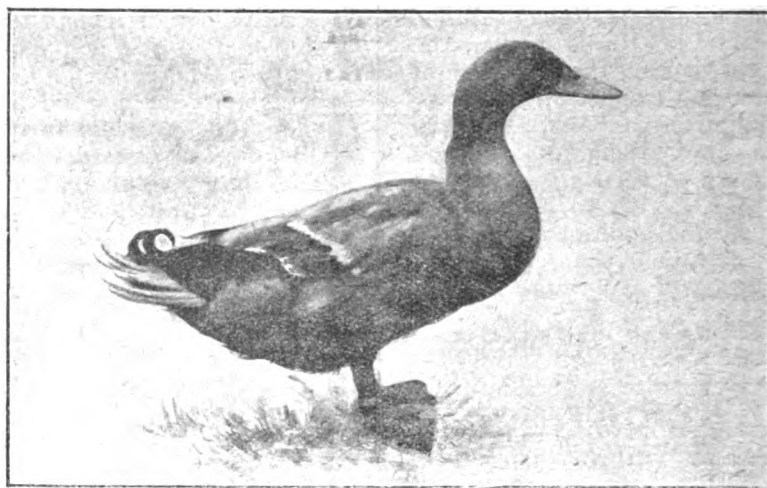
the New Zealand Fawn and White Indian Runner which produced 363 eggs in 365 days.

A few days ago I received the following letter from one of our members with regard to a sitting of eggs he purchased in April, 1921, and hatched out on the 25th May following. He says: "I kept a drake and 3 ducks. The ducks commenced to lay on 4th November, and the following is the actual record of the eggs laid in their house, no notice being taken of an occasional egg being found in the field:

From 4th.	Nov.	Dec.	Jan.	Feb.	Mch.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	To 3rd.
	30	74	91	76	86	82	75	59	50	32	41	64	6

Total, 765. Average per duck 255 eggs."

My correspondent goes on to say that one duck had been laying throughout the year until the first of this month (November) before moulting, and that by the 27th November she was practically through her moult. He put down under hens at various dates during the Spring 79 eggs, out of which he hatched 61 ducklings, 20 being drakes and 41 ducks. The latter are laying splendidly as they reach between 5 and 6 months old. Two of them, hatched 4-3-22, commenced to lay 29th



second and Coaley Fawns third. Surely rather marvellous that ducks should be awarded the Gold, Silver and Bronze Medals in this Test, which embraced 368 pens of Britain's leading breeds of pullets and ducks. This was on a 44 weeks' test; in the full year the leading pens of 5 Khaki-Campbells produced 1,384 eggs, an average of 276.80 eggs per duck in the 52 weeks. This is to date the world's official pen record, the previous one being that held by a pen of 6 Indian Runners, which a few years ago at Hawkesbury College, N.S.W., laid 1,601 eggs in the year, equalling 266.83 eggs per duck. Another rather wonderful performance is that of a Fawn and White Indian Runner, which is being retained at Bentley for a second season. From November 1st, 1921, to October 31st, 1922, she laid 350 eggs, every one of which weighed 2½ ozs. or over, and during the first week of November, 1922, she was still laying every day. This record approaches very closely

July, and up to 12th October have produced 143 eggs in 76 days, an average of 71½ eggs each. Unfortunately owing to shortage of houses he then had to put these birds with others, so he has been unable to keep the actual record since. All his birds have free range on 8 acres on the Brighton Downs, and at no time has fish meal exceeded 10 per cent. of their mash. There was no selection whatever with these birds, they were just recorded as they came on to lay.

The drake illustrated is "Grasmere Joe," which was judged the best Khaki-Campbell Drake at the Dairy Show. His sire's dam's record was 286 and his dam's record 295. He is the property of my friend Mr. W. H. I. Hurman, of "Grasmere," Somerset, who is very keenly interested in Khaki-Campbells, and hopes next year to have a pretty big flock with which I hope may be as successful as with his famed Rhode Island Reds.

(To be continued.)

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

**W. Wyandottes & W. Leghorns.**  
Stamina—Fecundity—Type.  
**BOUGHTON via NORWICH.**

**Rev. F. KENNEN, S.P.B.A.,**  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from  
dam's 275-280 eggs. Sire's Dam, 255 eggs in  
pullet year.  
Pullets No. 50, winner of Special and 1st  
Prize, Sept. 9th, 1922. Pen No. 1, headed  
by Male from 250-240s. hen (Latham). Pen  
No. 2, later hatched, but with special forward  
male. Orders now taken for Sittings,  
Day Olds, and Early Pullets and Cockerels.  
Prices and Records given on application.

### Miss HARDMAN,

Member S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

### F. A. HULME,

Heathfield Commercial Egg Farm,  
**HEATHFIELD, SUSSEX.**  
**WHITE LEGHORNS.**

Large Flock. Egg average over 180, mated  
to FRANK SNOWDEN (direct). Cockerels  
from 240-egg dams.  
Hatching Eggs, Cockerels, Breeding Hens,  
Pullets.

### P. N. SHELLEY S.P.B.A. and N.U.P.S.

Breeder of Utility Trap-nested  
**RHODE ISLAND REDS**

1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

### FRAMLINGHAM.

Over 25 acres of exposed Grass Land.  
Speciality, White Wyandottes (Tom Barron)  
Only birds that have laid 200 eggs in pullet  
year and over 50 in second winter, bred  
from. Also White Leghorns (Barron's) and  
R.I.R.'s (Golden's). Eggs, 10/6; Chicks, £1  
per doz.  
White Wyandotte Cockerels, January, 1922,  
from hens with over 60 eggs in third winter  
from £1 each. White Leghorns, 15s.  
Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

### Mrs. CHARLES CARTWRIGHT,

The Welland Valley Poultry Farm,  
Seaton, Uppingham, Rutland.  
1922 COCKERELS. See Register for Pen  
White Wyandottes. Prices from one guinea  
to three guineas. Also Light Sussex, Buff  
Rocks, Anconas, and White Leghorns.  
Stamina and Size of Egg a Speciality.  
Mated Pens for Sale.  
White Runners (Taylor's) and Roman Geese  
Pupils Thoroughly Trained.

### WHITE WYANDOTTES.

L. WILLIAMS.

Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF BOSS.

### G. W. MILLER,

Breeder of High Class Trap-Nested  
**RHODE ISLAND REDS.**  
**WHITE LEGHORNS.**  
**LIGHT SUSSEX.**

A Few Pullets for Sale in each strain.  
Inspection invited.

**MILL VIEW POULTRY FARM,**  
**TENTERDEN, KENT**  
Five Minutes High Halden Station.

**MAJOR E. P. WIDDICOMBE.**  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-old Chicks now  
being booked.

**SHIPWAY POULTRY FARM.**  
**TORQUAY, SOUTH DEVON.**

### Miss N. B. MADDISON,

S.P.B.A., N.U.P.S.,

Dane Hill, Sussex.

### RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

Grand Early Cockerels for Sale.  
All Trap-Nested Pedigree Utility Stock.

### QUAKER BROOK POULTRY FARM,

**WHITE LEGHORNS**  
**WHITE WYANDOTTES**

### HOGHTON nr. PRESTON

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Helton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I.Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

### R. M. THORBURN, M.S.P.B.A.

The Kirk House, Traquair, Innerleithen.  
Highest Class Utility  
**WHITE WYANDOTTES.**  
**ANCONAS.**

Hardy Stock, bred and reared among the  
Hills of the Scottish Border.

Trap-Nests Used Throughout.

Settings: 10/6 for 15 Eggs, Carriage Paid.  
A Few Selected 1922 Cockerels, 15/- each.

### Miss ARGLES.

**DAY-OLD CHICKS**, bred from my famous  
White Wyandottes.  
Twice top score, once third in all Ireland  
Laying Test in four years.  
White Leghorns, Miss Edwards' splendid  
Laying Strain.

Cross-bred DAY-OLD PULLETS. Book now.

Anstey Poultry Farm, ALTON, HANTS.

Balsham Manor Farm. Partners: H. J.  
Bingley and A. W. McKenny Hughes. Creve  
Coeurs and Boudans, from 20/- doz. Newly-  
imported breeds with a future. Book now.  
Noires du Berry and Gatinaises. Sittings,  
20s. doz. White Wyandottes, Black Wyand-  
ottes, White Leghorns, Silkie Wyandottes  
Cross, from 10/- doz. Agents for one of the  
largest poultry farms in France, we can  
obtain Black, White, and Grey La Bresse,  
Salmon Faverolle (Tete D'Hibou), La  
Fleche, and all other French breeds. Send  
for illustrated catalogues to Balsham  
Manor Farm, Balsham, Cambridgeshire,  
and please mention "Eggs."

### The MISSES RANSFORD, White Leghorn Stud Farm

All Birds Trap-Nested.  
All Birds on Free Range.

### PERSEVERANCE POULTRY FARM, PENSFORD, BRISTOL.

Pedigree Cockerel List Now Ready.

### Rev. C. E. CARNEGIE, S.P.B.A., NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of L2 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/- carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

### White Wyandottes only. TOM BARRON'S STRAIN.

Dam's Guaranteed Individual Records  
226 to 275 24 to 240s. eggs in pullet  
year, over 400 eggs in two years, sire's  
dam 286 eggs.

A few selected Cockerels from above  
Mating.

Prices 20/- to 32/6 Carriage Paid.

Mrs. BURGESS, S.P.B.A., N.U.P.S.,  
Woodside, Tenterden, KENT.

### E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S., and N.U.P.S.

Breeder of the Highest Class Pedigree  
Utility Poultry.

"NEASELANDS," HAYWARDS HEATH, SUSSEX.

Phone—Haywards Heath, 92.

White Leghorns,  
White Wyandottes,  
Rhode Island Reds, S.C.

Light Sussex,  
Mendels, Black,  
Black Leghorns.

### Moor House Poultry Farm, TOTON, NOTTS.

High-Class Utility Poultry.

R.I.R., S.C. (Measures), Wyandottes  
(Hunters), W. Leghorns (Warwick Rogers).

Orders Booked for Eggs and Day-Old Chicks

A Few W.L. Cockerels, 10/- Each.

Proprietor: Mrs. LITCHFIELD, M.S.P.B.A.



**BREEDERS' SPECIALITIES.—Cont.**

**WATERSON, WEST and BRANKSTON,**  
Marks Poultry Farm,  
**BETTENDON, CHELMSFORD.**  
Farm recently inspected and stock highly  
approved by Mr. Tom Newman.  
Stock Cockerels, March hatched. White  
Wyandottes, White Leghorns, Rhode Island  
Reds, and Barnevelders (imported direct);  
21s. each, carriage paid. Eggs for Hatching  
and Day-old Chicks. Orders now being  
booked. Eggs, 10s. dozen; 60s., 100. Chicks  
double. White Runner Ducks, Wilson's  
direct, 15s. each, £8 dozen.

**G. TALBOT, S.P.B.A.**

Breeder of High Class Trap-Nested  
Utility Poultry.  
White Wyandottes, White Leghorns,  
Rhode Island Reds.  
Orders for Eggs and Day-old Chicks now  
being booked.

**Beacon Dene Poultry Farm,**  
Blackpool Road, Poulton-le-Flyde, Lanc.

**The LINES POULTRY FARM,**

**TAKELEY, ESSEX, M.S.P.B.A.**

Specialities: High Class Pedigree Utility  
Poultry, R.I.R., Sires Boucher direct from  
hen records 271 and 280; White Leghorns,  
Barron Padman, Hen records 246 to 260.  
Light Sussex and R.C. Black Leghorns.  
All reared on wide range and under ideal  
conditions.  
Orders now being booked for Sittings and  
Day-Olds.  
Enquiries and Inspection Invited.

"Book now for Chicks from Tested birds."  
S.c. R.I. Reds. Progeny great layers."

Miss E. Gibson, M.S.P.B.A.,  
Glyn Coed,  
Woodfield Avenue,  
Wolverhampton.

**R. J. HUBBUCK,**  
Member of S.P.B.A., N.U.P.S., and P.C.,  
**Pinehurst Poultry Farm,**  
**HEADLEY, HANTS.**

Pedigree Trap-Nested  
**LIGHT SUSSEX.**  
**WHITE WYANDOTTES.**  
Sittings, Cockerels, Hens and Pullets.

**Major DISNEY-ROEBUCK, M.S.P.B.A.**  
**Mrs. DISNEY-ROEBUCK.**

Breeders of High-Class Trap-Nested Utility  
Stock.  
**LIGHT SUSSEX.**  
**WHITE LEGHORNS.**  
**CROAD LANGSHANS.**  
Hatching Eggs and Stock Birds.  
Price List on Application.  
**HOO MEAVY POULTRY and DAIRY FARM,**  
Near YELVERTON, S. DEVON.

**Mrs. GOODDEN,**  
West Coker Manor, YEOVIL.

Buff Orpingtons, Light Sussex, and White  
Runner Ducks.  
Buffs at Harper-Adams' Laying Trials un-  
beaten 3 consecutive years by any other  
Orpingtons.  
Sussex Records include 315, 301, 285, 276  
per bird.

**PLYWELL POULTRY FARM,**  
S.P.B.A., N.U.P.S.,  
**SPECIALIST BREEDERS of**  
High Class Pedigree Trap-Nested Utility  
Light Sussex and White Leghorns.  
Orders for Eggs for Hatching and Day-old  
Chicks now being booked.  
Mating List Free.  
**LYMINGTON, HANTS.**

**MID-ESSEX POULTRY FARM**  
Ramsden Heath, Billericay.**F. BIRD, M.S.P.B.A., Proprietor**

S.c. R.I.R. Cockerels from hen with win-  
ning record of 81 eggs (non-broody), sire's dam  
record 279 (also non-broody). Also W. Leg-  
horns, ex Leghorns, W. Dottes, and  
Anconas. Trap-nests used.  
Day-Old Chicks now being booked.  
Particulars with pleasure.

**G. F. W. SCATCHARD,**  
M.S.P.B.A., F.N.U.P.S.

White Leghorns, Black Leghorns, White  
Wyandottes, and Rhode Island Reds.  
Every bird trap-nested, and only L2 birds  
bred from.

**Warren Poultry Farm,**  
BIRKDALE, SOUTHPORT.

**FRANCIS J. MARSTON,**  
S.P.B.A. and N.U.P.S.

Breeder of TRAP-NESTED UTILITY  
Rhode Island Reds, S.c.  
White Wyandottes.  
White Leghorns.  
Black Leghorns.  
Sittings. Day-Old Chicks.  
Stock Birds.  
The **BIDDENDEN POULTRY FARM,**  
**BIDDENDEN, KENT.**  
Inspection Invited.

**WHEN WRITING ANY OF THE**  
**ABOVE RELIABLE BREEDERS,**  
**PLEASE MENTION "EGGS."**

**THINK OUT WHAT EGGS AND CHICKS**

you will need for the Spring. Book them soon. I can guarantee delivery if ordered now.

Gold Medal Laying Competition Strains.  
Every Pullet Carefully Trap-nested.  
Only High Pedigree Males Used,

**LIGHT SUSSEX.**  
**WHITE LEGHORNS.**  
**BUFF ROCKS.**  
**WHITE RUNNER DUCKS.**  
**KHAKI CAMPBELLS.**

Few Pedigree Cockerels and Drakes, at 20/-  
to 45/-, carriage paid.

No Pullets or Ducks left.

Write before I am booked up.

"What's Wanted," my book that explains  
Incubating-Rearing, etc. Only 2/6.



**Miss HARRISON BELL, Welwyn, HERTS.**

## Classified Advertisements.

(PREPAID RATES).

4d. per word—minimum charge, 1s. 6d. Box numbers, 1s. 6d. extra, per insertion. Bold headlines inserted at an extra charge per insertion according to size as below:—

**DAY-OLD CHICKS** ... 6d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	
6 " " " "	4
9 " " " "	6
13 " " " "	8

N.B.—Advertisements, unless accompanied by correct amount, will not be inserted.

Advertisements must be distinctly marked with the Heading under which they are to appear.

Advertisements must be written on a separate sheet of paper, and on one side of the paper only.

Name and Address to be counted. In the case of a Box Number being used, the words "Box," "Eggs," 94, Farncombe Street, London, S.E.16, to be counted as eight words.

Advertisements must reach this Office

### FIRST POST FRIDAYS

for insertion in the following Wednesday's issue. Those received after this time will be inserted in the next issue.

## Displayed Advertisements.

Ordinary Page, £8 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 6d.; One Column, £2 18s. 6d.; Half Column, £1 9s. 3d. Quarter Column, 14s. 6d. 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangement. Discounts for Series. Full scale of Advertising Rates on application.

ADVERTISEMENTS must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E., by first post FRIDAY MORNING, for insertion in following issue. Advertisements received later will be inserted in the next issue.

A DEPOSIT SYSTEM has been adopted for Advertisements, and Advertisers are asked to make full use of same. When remitting direct to the Editor on deposit the full amount of purchase money should be sent and six penny stamps extra to cover cost of acknowledgment of same.

### FOR SALE.

#### PULLETS.

### WHITE LEGHORN PULLETS.

February and April; Dr. Baldwin's direct; fine healthy birds; reared on free range at 600ft.; 21s. each, carriage paid.—Capt. F. S. Pardoe, Bradley Court, Mitcheldean.

Well-marked LIGHT SUSSEX Pullets, from L2 hens; now laying; 17s. 6d.; near laying, 15s. each.—Harmer, Hadlow Down, Sussex.

WHITE LEGHORN Pullets; 15s., 20s. Pen Eight Hens and Cocks, £6 5s. Records supplied.—Elkington, Shirehampton, Bristol.

WHITE LEGHORN Pullets. April hatched, 12s. 6d.; May, 10s. each, carriage paid. Fine healthy birds. Also for Sale, several Houses, Posts and Wire Netting; all in good condition.—Particulars from Jas. Murison, Miralcampo, Ferres, N.B.

CROAD LANGSHAN. Eight March Pullets; Joergens; splendid birds; free range; some laying; 1st prize at Thame. 20s. each.—G. Goldsmid, Brill, Bucks.

#### BLACK LEGHORNS.

February and March hatched Pullets, good layers; will make splendid breeders. Also Magnificent Cockerel; 15s. each. Pedigree, etc.—Dr. G. P. Wilson, Ketton, Stamford.

### WHY NOT HAVE THE BEST?

WHITE LEGHORNS, April-May, from my renowned high fecund strain; 15s., upwards. 1921 Hens, clean through moult; 7s., upwards. Carriage paid. Approval. — Jack Underwood, S.P.B.A., Reliable Poultry Farm, Sutton Bonington, Loughborough.

RHODE I. RED Pullets, five months old. What offers? Finest laying strain, with pedigree.—Particulars from J. M. Jones, The Mount, Griffithstown, near Newport, Mon.

Cam's (direct) 286-egg, March-April, 1922, WHITE LEGHORN Pullets; laying; 12s. 6d., 15s. 6d., carriage paid.—Simmins, M.S.P.B.A. Heathfield, Sussex.

WHITE WYANDOTTES, 1922 hatched; in or near lay; from trap-nested winter laying strain; from 10s. Also 1921 hatched trap-nested WHITE LEGHORNS and WYANDOTTES. Pedigrees and records supplied; from 10s.; year's records up to 259. For Sale, owing to removal.—H. C. Tree, S.P.B.A., Uplands, Ropley, Hants.

### 200 PURE BRED R.I.R. PULLETS

February-March hatched, by sons of 306 302-egg hens; Boucher, direct from trap-nested and flock-recorded L2 hens only; many suitable for 1923 breeders. All in perfect health; free range reared; mature; from £1 each. Fuller particulars on request.—Major Robert Lethbridge, Tiverton, Devon.

Hundreds 1922 Pullets, and 1921 Breeding Stock, R.I.R.'s and LEGHORNS, Crowley, Boucher, Padman. Stamp.—Longley, Ashwell Herts.

April, 1922, WHITE LEGHORNS, from 200 egg hens, on point of laying; 12s. 6d. each. —Vail, Wanborough, Guildford.

April, 1922, Pullets, near laying; WHITE LEGHORNS, R.I.R.'s; 6s. 6d. each, carriage paid. — Bramwood's Farm, Highwood, Essex.

### COCKS AND COCKERELS.

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks (all colours). Records to 269. Approval.

### PEDIGREE STOCK COCKERELS.

February and March hatched W. WYANDOTTES, Barron's strain; fine healthy birds; February, 21s.; March, 17s. 6d. Pedigrees on application.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenthorpe, Sheffield.

### DR. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 25s. each, carriage paid; November and December. — Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

BUFF ROCK Cockerels, bred from stock supplied by J. H. Cooper, dam's record 225-238, February and March hatched, pedigree on application; 15s. to 30s. each. — Farrar, Brookroyd, Batley, Yorks.

### FIRST AND GOLD MEDAL.

WYANDOTTES, Single Bird Test, Cheshire Section, 224 first grade one second grade. A few related Cockerels (from 24oz. egg heavy layers) for sale. — Captain Heeseltine, Ropley.

Twenty Selected WHITE LEGHORN Cockerels; March and April hatched; bred from trap-nested hens; 12s. 6d. each. Particulars on application. Send for 1923 mating list, now ready.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenthorpe, Sheffield.

#### BARNEVELDERS.

Five April hatched Barnevelder Cockerels, imported from Holland, 30s. and 20s. each. —D. Carlton, F.N.U.P.S., B.B.C., White Hall, Sudbury, Suffolk.

CROAD LANGSHAN Cockerels; March hatched; from pen of wonderful layers, winter eggs; direct from late Lady Essex; 21s. each.—Holt, Stonefield, Pleasington, near Blackburn.

CROAD LANGSHAN Cockerels, from trap-nested stock; January hatched; ready for early mating; 25s. Also Border Canaries, Cocks; 10s.; Hens, 5s.—Clarke Hughes, Westbere, Canterbury.

Utility HOUDAN Cockerels, from bred-to-lay hens; 20s. each.—Edgington, Billingshurst, Sussex.

Cockerels, from specially selected layers, mated high pedigree sires. WHITE LEGHORNS, WYANDOTTES, BLACK LEGHORNS; two, 30s.; four, 50s.—Milestone Egg Farm, Patrizbourne, Canterbury.

## BLACK LEGHORN PEDIGREE COCKERELS.

A few offered, 30s. each. First-class pedigree (four generations) given.—Rev. F. Wimberley, Fettercairn, Scotland.

Stock Cockerels. Pure WHITE LEGHORN (Padman), March; 15s. LIGHT SUSSEX, 12s. 6d.—Francis, 102, Dunvegan Road, Eltham, S.E.9.

Pedigree WHITE LEGHORN Cockerels (Parson's), from dams with records from 220-260; price 15s., 17s. 6d., 21s. each.—Simmons, Fairview Poultry Farm, Hembury Fort, Honiton, Devon.

Pedigree RHODE ISLAND RED Cockerels, February and March hatched (Boucher-Crowley); 15s., 20s. Pullets, 12s. 6d. to 15s. Approval.—Harrow, "Westfield," Tenterden.

PEDIGREE COCKERELS, Brown and Black Leghorns, Light Sussex; March hatched.—Particulars, Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

## CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.

Stock Cockerels for Sale WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS and WHITE LEGHORNS; 10s. 6d., 21s. each, according to breed and dam's record. All with records from 234 to 277. Full particulars on application.

## R.I.R. COCKERELS, SPLENDID COLOUR.

A few fine healthy March hatched birds; 20s. each. Return carriage paid if not satisfactory.—Bryce, Meadow Bank, Sidding-ton, Cheshire.

## LIMES POULTRY FARM, TAKELY, ESSEX.

Stock Cockerels for Sale. R.I.R. (Boucher direct), White Leghorn (Barron Padman), Black Leghorn and Light Sussex. All with high records and sired by pedigree birds. 10s. to 25s. each, according to breed and records.

WHITE WYANDOTTES, 1921 hatched only, P. L. Johnson strain, dam's record Winter 69, year 225; one Latham strain, dam's record winter 62, year 221; 24os. egg strains; 30s. each.—Tree, S.P.B.A., Uplands, Ropley, Hants.

## BLACK LEGHORNS.

February and March hatched; Ingle strain; Cockerels, 10s., 15s., 21s.—Beaumont Booth, Wick Lane, Wickford, Essex.

## BROWN LEGHORNS.

SELECTED COCKERELS (By Simon Hunter, 280-egg stock bird, March hatched, Pullets of same hatch now in full lay; only variety bred; 17s. 6d. each.—Muntz, Tansor, Peterboro'.

Pure Tom Barron's WHITE WYANDOTTE Cockerels, March bred, from hen with winter records of 60 upwards; 15s. each. Also REDS, ANCONAS, LIGHT SUSSEX.—Scott, Helmingham, Stowmarket.

One R.I.R. S.O. Cockerel (Metcalfe), March; 12s. 6d. One Ditto, April, 10s. 6d.—Bailey, Foxholes, Kingham, Oxford.

BUFF ORPINGTON COCKERELS, From L2 hens, sired Thomas's cockerel, brother, world's record hen; grand, vigorous birds; 15s. each.—Wheatley, S.P.B.A., Barwood, Gloucester.

RHODE ISLAND RED Cockerels, April hatched; Bostock Smith direct; two guineas.—Mrs. Burnell Wedmore, Remenham Hill, Henley-on-Thames.

RHODE ISLAND RED Cockerels, April hatched, Dr. Crowley direct; 12s. 6d.—Miss Cole, May Cottage Poultry Farm, White Hill, Crowborough, Sussex.

R.I.R. February Cockerels; Golden's strain; 15s. 6d.—Potton, S.P.B.A., Northview Poultry Farm, Canewdon.

## SALE OR EXCHANGE.

Cockerels, bred from valuable stock obtained from Boucher, Bostock Smith, Burgess, Eden, and Hunt. RHODE ISLAND RED, LIGHT SUSSEX, and BUFF ROCKS, March and April hatched; 15s. each, or will Exchange for 1921 BLACK LEGHORN Hens (trap-nested).—Janaway, Cherry Tree Poultry Farm, Sanderstead, Surrey.

Four Selected R.I.R. Cockerels, March hatched; clean legged, and well plumaged birds of pedigree; Measure's strain; price 25s. each.—Casetta, Hare Lane, Lingfield.

## WYANDOTTES.

WHITE WYANDOTTE Cockerels. March hatched, from daughters of 262 and 268-egg hens, by cock grandson of "Lady Eclipse" (301 eggs); price 21s. each.—Mansell, Kingston Stert, Thame.

Five well-developed March S.O. R.I.R. Cockerels, Crowley, Crowley - Boucher; reared under hardest conditions; guaranteed, from exceptionally high winter laying hens of large brown eggs; 21s., 25s.—Marchant, Anmer, King's Lynn.

W. WYANDOTTE and W. LEGHORN. Cockerels, March hatched, direct from Frank Snowden's, extra special pen No. 2, from Leghorn pen, were bred his American winners; Rhode Cockerel, February hatched from H. Paine's super pen; Australian Black Orpingtons, from Australorps Farm direct, from three guinea sitting. Hearson Coal Burning Brooder, 500 size; once used; cheap.—Frank Smith, East Peckham, Paddock Wood.

For Sale, 1922 Cockerels, R.I.R. (Boucher direct) and LIGHT SUSSEX (Crawshaw); 20s., or Exchange 1921 birds; Cocks or Hens; same strains.—Major Pugh, Mount Hill, Carmarthen.

## WHITE LEGHORN

TYPE, STAMINA, HIGH FECUNDITY. White Leghorn Stock Cockerels, bred from a 285-egg hen; sire's dam 296; April hatched; £1. Also R.I.R. REDS, from Beales, Measures, and Golden's best; superb colour; March, 15s., £1. Approval. Carriage paid.—W. F. Bear, S.P.B.A., Acton, Sudbury, Suffolk.

Two 1921 hatched WYANDOTTE STOCK COCKERELS, bred from Frank Snowden's best pen; 21s. each.—Harmer, Hadlow Down, Sussex.

## EGGS AND CHICKS. WATLINGTON POULTRY FARM, OXON. DAY-OLD CHICKS.

We are now open to receive orders. W. Wyandottes, W. Leghorns, Rhode Island Reds (s.c.), W. Orpington. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £3.

## HATCHING EGGS.

Two year old WHITE LEGHORNS, mated 270-egg cockerels; 6s. down; 8s. hundred; carriage paid; order now for January onwards.—H. Chesterton, Chiddingfold, Sussex.

## My Breeding Standards guaranteed A SOUND INVESTMENT

## HATCHING EGGS.

Trap-nest tested L2 Hens (big egg layers only), mated to Tested L2 Cocks and individual bred Cockerels. Reasonable prices. 10 per cent. reduction orders booked before January 1st. It will pay you to send NOW for FULL particulars. W. Wyandottes, W. Leghorns, Black Leghorns.—H. Rawlins, Lynwood P.F., Horeham Road, Sussex.

## LIGHT SUSSEX ONLY.

All pens mated to sires, dam's records from 200 to 284. Eggs from £2 to £3 per 100. Chicks from £5 to £6 10s. per 100. Illustrated Catalogue sent on application.—C. Frederick Preston, S.P.B.A., N.U.P.A., Wildhern, Andover.

LIGHT SUSSEX SITTINGS, from Hens of good type and prolific layers of large eggs; all trap-nested as Pullets, and now on free range; 8s. 6d. doz.—Capt. F. S. Pardo, Bradley Agricultural School, Mitcheldean.

## HENS.

## HENS (1921)

for Breeding R.I.R. (Golden), WHITE LEGHORN (Barron). Splendid birds. Approval; 11s. each.—Milestone Egg Farm, Patricbourne, Canterbury.

## WHITE LEGHORNS.

Eight WHITE LEGHORN Hens, April 1921 hatched; bred from same pen as birds which gained fifth position at Midland Lar Competition; mated to T. Barron strain; 1922 Cockerel; £3 10s. the pen, carriage paid.—W.H. Bannock, Sunnybank, Oakworth, Keighley.

WHITE LEGHORN Hens, 1921, Padman; good layers large eggs; 7s. each.—Hamerton, Kingley Green, Haslemere.

BREEDING PENS (1921). Few R.I.R. (Crowley); WHITE LEGHORN (Padman); and LIGHT SUSSEX for Sale; 7s. 6d. each to clear; splendid birds and egg records; some laying.—Limes, Poultry Farm, Takely, Essex.

## DUCKS AND DRINKS.

50 April-May, 1922, FAWN and WHITE RUNNER Ducks, Upjohn strain; bred from 250-egg drakes; well grown birds; laying or near laying; 11s. 6d. to 15s.—Waters, Uplands Poultry Farm, Rotherfield, Sussex.

## FIRST IN BUFF ORPINGTONS.

National Laying Test, 1,017 eggs in 44 weeks. Consecutive runs of 151 (record), 147, 108, in as many days. 1st, County Utility Cup, Winchester; 1st, Eltham; 1st and 3rd Ducks, 2nd Drakes, Tottenham. — Write for particulars, Captain Heseltine, Boply.

Nye and Son offer Pedigree FAWN and WHITE RUNNER Ducks from their strain which produced World's Champion Layer, 461 eggs in 488 days, etc.; four ducks and drake; £5 or offer. Inspection invited. — Shoreham-by-Sea.

DUCKS and DRAKES.—Buff Orpingtons, Aylesburys, Fawn and White Runners; 12s. 6d. each.—Mrs. Wilson, M.S.P.B.A., Minorea Farm, Denholme, Bradford.

WHITE RUNNERS, BUFF ORPINGTON, and KHAKI-CAMPBELL Drakes for Sale. price 12s. 6d., carriage paid, or will exchange equally good birds.—Lovgreen, Carleton Derick, Penrith.

CHAMPION WHITE RUNNER Drakes (Seymour Shaw direct); 12s. 6d. each. — Faulkner, M.S.P.B.A., Thornton Hough, Birkenhead.

## KHAKI-CAMPBELL DRAKERELS.

(Leslie-Thomson-Campbell strain); correct colour, no white; May hatched; well-grown; 17s. 6d. each.—Muntz, Tansor, Peterboro'.

Three pure-bred AYLESBURY DRAKES, fine birds; April hatched; 15s. each. — F. Francis, Mount Pleasant, Thakeham, Sussex.

Stock Drakes. WHITE AYLESBURYS, June hatched, 1922, from massive parents and good layers; 10s. 6d. each, carriage paid.—Will Bancroft, M.S.P.B.A., Sunnybank, Oakworth, Keighley.

F. W. RUNNER DUCKS, May, 1922, hatched; commenced laying; 9s. each; 1920 and 1921 Ducks; 6s. each.—Stratton, Lenham Heath, Maidstone.

## RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.

## APPLIANCES.

### GALVANISED CORN BINS.

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid. —Hudson, Sheet Metal Works, Patrioncroft, Lancs.

FITTINGS and Felts for egg boxes, any size made; state wants; Egg or Chick Boxes (cheap). Lists free.—Write, Hodges, 12, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsgate Heath, Billericay, Agent Plaxek Cold Brooder. Vacancy for Pupil.

STANWORTH - SOOLE ANTHRACITE BROODER STOVE. Four for Sale; in good condition, with seven feet of piping; £5 15s. singly, or £22 the four, f.o.r. Newbury. —Capt. R. A. Angier, Mousefield, Newbury, Berks.

Two HEARSON COAL BURNING BROODER STOVES (4-500 chicks); £5 each. Also 100-Egg Gloucester Incubator; £5. — Apply, F. A. Gorton, Kynance Compton, Winchester.

For Sale. GLEVUM ANTHRACITE BROODER STOVE. Used twice. £6.—Apply Hartley, Weavills Road, Bishopstoke, Hants.

For Sale. GLOUCESTER 42-EGG INCUBATOR, self-turning tray, gas and oil fittings; used one season; £5, f.o.r.—J. Smyth, Homestead, Ripponden, Yorks.

## WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. For Ducks, 3s. 3d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

## COME AND SEE IT AT OLYMPIA.

One HEBDITCH HOT-AIR INCUBATOR, 390-eggs size; used one season, £12; and One HEARSON HOT-WATER INCUBATOR, 220-egg size, £15. Both complete in every respect, and perfect condition. Two GLEVUM HOT-AIR 100-CHICK HOVERS; excellent rearers; £2 each.—Dale Egg Farm, Lawshall, Bury St. Edmunds.

TRAP-NEST FRONTS, never fail; last life time; 24s. doz.; sold or money-back principle.—Bevan, Potters Heath, Welwyn, Herts.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Best galvanised. British only; stamp list. —Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

## JUST WHAT WE WANT.

to prevent wooden incubators absorbing the moisture from the eggs and causing dead-in-shell. Then use non-absorbing oils by giving one or two coats inside of incubators and egg trays every year; they are quick drying, harmless and disinfecting, 2s. 10d. per bottle, post free.—Only and always to be had from W. C. Searle, S.P.B.A., 22, Coutts Road, London, E.3.

GLEVUM INCUBATOR, 260-egg size; very good condition; splendid hatcher; £9 10s.—Burdett, St. Just, Chew Magna.

## "ELECTRO-AUTOMATE"

You can almost see the Vitamines in the egg hen using this lamp for testing; no batteries required; 50s. each, post paid.—Clifford de Kusel, 1, Stenbridge Road, Anerley, S.E.20.

For Sale. Four HOT-WATER INCUBATORS, 144-egg size, new this year. £6 each, easily worth double.—River Poultry Farm, King's Lynn.

A 390 GLEVUM INCUBATOR; practically new.—Apply, The Proprietor, Watford Poultry Farm, Watford, Herts.

The Countess of Strathmore, St. Paul's, Walden Bury, Welwyn, has a NEWTOWN INCUBATOR, to hold 1,200 eggs, for Sale. Has never been used, and is quite perfect. £90, free on rail.

HEARSON INCUBATOR, 240-egg; new this year; perfect condition; reason for sale, Mammoth installed. Reasonable offer accepted.—Newlands, Kidmore End, Oxon.

Satisfaction Guaranteed. POULTRY HOUSES and APPLIANCES, made to any design. Estimates Free.—Machin, M.S.P.B.A. 7, Watlands View, Porthill, Stoke-on-Trent.

## RELIABLE

60-EGG HEARSON INCUBATOR; perfect working order; £6. 60-EGG OYPHER, hot-air; £3 10s.—Enquiries, Richardson and Ashton, Birley Spa P.F., Hackenthorpe, Sheffield.

Two PHIPPS' 100 and One 60-egg HOT-WATER INCUBATORS; complete, with spare lamps to each; new last season; £7 10s. and £6. — Harmer, Hadlow-Down, Sussex.

## FOODS.

### DERBYSHIRE LIMESTONE GRIT.

2s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

## POULTRY CHARCOAL

DIRECT FROM

## THE MANUFACTURERS.

A Large Sample Packet of "LATHAR OOL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharool" is much better than ordinary Charcoal.—J. B. Lathan and Co., Ltd., 66, Eastlake Road, London, S.E.5.

FINE SWEDES, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

## AMERICAN OYSTER.

F.o.r. London, Avonmouth, Manchester, Newcastle; 5s. 6d. cwt., Stourbridge. Oyster, Flint, Cockle, and Crossshell. Samples Free. —Midland Grit Co., Stourbridge.

## CEDAR LITTER.

Keeps vermin at bay; 12s. cwt. (16 bushels). Granulated Charcoal, 22s. cwt. All carriage paid. Also Dried Flies, Peat Moss, 'Grits', Meals, etc. Special quotation bulk quantities. Enquiries invited. Samples free. — Bygrave and Co., Amwell, Ware.

**MISCELLANEOUS.****EDENMORE POULTRY FARM,  
HOOK, HANTS.**

**WHITE WYANDOTTES**, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig.-General Macdonald, Edenmore Hook, Hants.

**PEDIGREE UTILITY  
STOCK COCKERELS.**

**WHITE LEGHORNS**, **WHITE WYANDOTTES**, s.c. **RHODE ISLAND REIS**. I have a grand selection of Tip-Top Cockerels, bred from individually recorded L2 hens. **WHITE WYANDOTTES**, bred from a 235-egg hen; winter record 81; sire's dam E. Cam's College Queen (301-egg hen); 30s. each, carriage paid. **RHODE ISLAND REDS**, bred from a 203-egg hen; winter record 71; sire, Measure's 1920 cock, sired by son of hen that laid 148 first-grade eggs in six winter months, and bred from National Gold Medal Winner; 25s. each, carriage paid.—1922 PULLETS for sale. All stock sent on full approval. Send for my detailed Price List.—Lindsay Scott (Life Member and Fellow, N.U.P.S.), The Worlington Poultry Farm, Mildenhall, Suffolk.

**Breeding Pens. WHITE and BROWN LEGHORNS**, 7s. 6d.; **LIGHT SUSSEX**, 15s.; **WHITE WYANDOTTES**, 10s. 6d. All 1921 hatched. Also **R.I.R.**, **LIGHT SUSSEX**, **BLACK and WHITE LEGHORNS**; Cockerels, 15s. to 30s. All bred from high-class pedigree utility stock. — F. Hodges, M.S.P.B.A., 1, Clock View Street, Beachcliffe, Keighley.

**WHITE WYANDOTTE COCKERELS,**  
March hatched, Rev. Birkett's strain.**KHAKI-CAMPBELL DRAKES,**

Pettipiper strain, March hatched; 15s. each. —Mr. Banks, Poultry Farm, Chalk Street, Rettendon Common, Essex.

Eight **R.I.R.** Pullets, March 6th, Measure's Gold Medal; £6 c.p. Thorner Double Purpose Brooder, 100 size; 30s. Black Minorcas, April trio; S. Hunter's; 30s. — C. W. Richards, S.P.B.A., The Court, Madeley, Salop.

Mrs. J. J. HOWARD, Deans Croft, West Winch Road, King's Lynn, Breeder of **WHITE WYANDOTTES**, **W. LEGHORNS**, and **LIGHT SUSSEX**. Utility Strains only. Offers selected White Leghorn Cockerels, direct from Cooks, St. Mary Cray; March hatched; 21s. Also Pullets, May hatched; 10s. 6d. each. Orders now booked for 1923 eggs and Day-old Chicks.

**R.I.R.** Stock Birds (Measure's Gold Medal strains direct); beautiful colour; February hatched; 15s.; splendid testimonials; once a customer, always a customer. — Ekins, N.U.P.S., N.S.P.C., Grange Poultry Farm, Wellingborough.

**HOLYROOD POULTRY FARM**, Hull Road, Cottingham, East Yorkshire. Telephone: 27 Cottingham. 1922, 7 awards, first, prize Cottingham Poultry Show. Sept. 21st. **WHITE LEGHORNS**, **WHITE WYANDOTTES**. Pure-bred Utility Birds. A limited number of Cockerels. March hatched: splendid birds; good type and stamina. Now booking order for Hatching Eggs and Day-old Chicks at Reduced Prices to suit the times.—M.S.P.B.A.

**CLIFFORD DE KUSEL**, Poultry Consultant. Farm Visited. Reasonable charges. —1, Stembridge Road, Anerley, S.E.20.

**BREEDING PENS.**

**BREEDING PENS.** Eight Light Sussex Hens and Brown Leghorn Cockerel; eight trap-nested White Wyandotte Hens and Brown Leghorn or R.I.R. Cockerel, as preferred. Also Stock Embden Ganders and Geese.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

**Miss E. A. BAYNES.**

Pedigree Utility **WHITE WYANDOTTES**, large egg strain. Speciality: Cockerels, bred from tested parents; 35s. to 65s. — A few Pullets left; 21s. and 31s. 6d. — The Chalet, Stocksfield-on-Tyne.

**RHODE ISLAND REDS** for Sale. Stock Cockerels from 21s. each; Pullets, from 15s. each.—Miss Howson, Borrowdale, Stocksfield-on-Tyne.

When you want English or American Poultry Books try—Foster, 48, Blackwall Buildings, Whitechapel, London.

**PATENT FOR SALE.**

"SELF-MINDING" RECORDING NEST. Practical! Positive!! Economic!!! Inimitable!!!! Genuine prospective buyers of the invention, write Patentee, J. Tempest Lamb, Paramount Farms, Alexandra Road, Morecambe.

**COTTAGE FOR SALE.**

For Sale, **COUNTRY COTTAGE**, two miles from Chichester, five miles from Bognor, Bognor Station half-mile; on frequent 'bus route; four bedrooms, two sitting rooms, gardens, garages, and stable; vacant possession; £600 or near offer. — Miss Kennard, Abellands, Merston, Chichester.

**FARMS FOR SALE.**

**FREEHOLD DAIRY and POULTRY FARM FOR SALE**, situate near Oldham, 25 acres, modernised six-roomed House, Barns, Shippens, and Piggeries; excellent water supply. Price £800. Possession, March 31st, 1923. Stock of Poultry, etc., optional. Immediate Sale of all Produce at good prices.—Apply, Box 189, "Eggs," 94, Farncombe Street, London, S.E.16.

**SMALL POULTRY FARM** (55 miles from London), 13 acres, 400 head; nice house, nine rooms; on 'bus route; 5 minutes from station (main line), telephone, telegraph, P.O. — Box 195, "Eggs," 94, Farncombe Street, London, S.E.16.

**HOUSES TO LET.**

**THREE - ROOMED COTTAGE**, electric light, modern cooker, with five acres of paddock; rent £30; stock houses and appliances; £400.—Box 193, "Eggs," 94, Farncombe Street, London, S.E.16.

**BUNGALOW FOR SALE.**

For Sale, **ARTISTIC BUNGALOW**, Hampshire; eight acres; suitable for poultry farm; adjoining station, pens, etc.; £1,850.—Box 196, "Eggs," 94, Farncombe Street, London, S.E.16.

**PARTNERSHIP.**

Wanted, **GENTLEMAN**, experienced in Commercial Poultry Farming, with not less than £1,000 capital, to extend existing business.—Box 188, "Eggs," 94, Farncombe Street, London, S.E.16.

Suitable for **MARRIED COUPLE**, Modern House.—Box 194, "Eggs," 94, Farncombe Street, London, S.E.16.

**PUPILS.**

**DR. BALDWIN** has Vacancies for two Lady Pupil Assistants on his Pedigree P.P. Accommodation near—Springfield, Wimbome.

**VACANCY** for Two Lady Pupils, with English Poultry Farm abroad, commencing January 1st. Opportunities given to visit Continental Exhibitions and learn French; moderate tuition and living expenses.—Box 199, "Eggs," 94, Farncombe Street, London, S.E.16.

Vacancies for **PUPILS**, resident or non-resident, on Modern Utility Poultry Farm. Moderate terms. References.—Carlton Williams, Jack o' Dandy, Eastbourne.

Vacancy for **LADY PUPIL**; free training in exchange for services; not less than six months' training given.—Write, Miss D. E. Kitchen, Vicarage Poultry Farm, Hardingstone, Northampton.

**WANTED.  
MISCELLANEOUS.**

Wanted Quotations for 550 Fertility Eggs, **RHODE ISLAND REDS**. Delivery second week January.—Box 186, "Eggs," 94, Farncombe Street, London, S.E.16.

**APPLIANCES.**

Wanted, One **GLEVUM HEARSON** Tamlin or Gloucester; 60 or 70-egg incubator.—Newman, Bryn-Corach, Conway, N. Wales.

**SITUATIONS WANTED.**

**ADVERTISER**, Practical Poultry Farmer, offers his Services for from four to six months.—Box 196, "Eggs," 94, Farncombe Street, S.E.16.

**SCOTCHMAN** (30), Public School; some experience; wishes Tuition on Egg Farm. State terms and full particulars.—197, "Eggs," 94, Farncombe Street, S.E.16.

**SITUATIONS VACANT.**

Wanted, at once, capable **POULTRY WOMAN**; moderate salary.—Write, giving all particulars, age, wages, and qualifications, to Miss D. E. Kitchen, Vicarage Poultry Farm, Hardingstone.



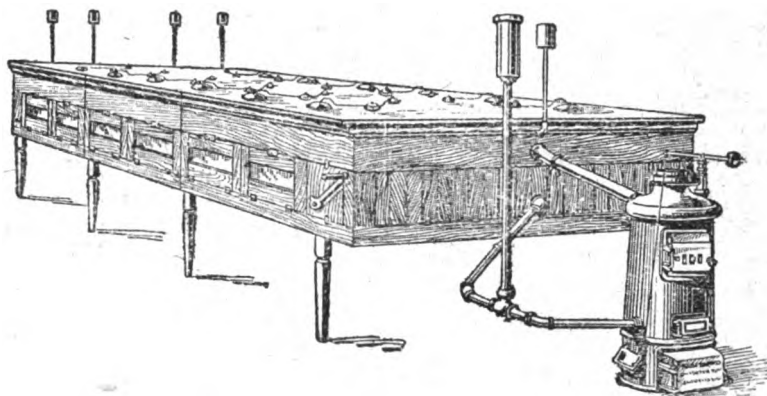
# ***"Glevum" Incubators.***

MAKE THE COMING SEASON A SUCCESSFUL ONE BY INSTALLING

## **The STEPHEN'S "GLEVUM"** **Hatching and Brooding Appliances.**

### **I SPECIALISE**

in Hatching and  
Brooding Applian-  
ces. you may there-  
fore rely on having  
the Best it is pos-  
sible to produce.



The 'GLEVUM'  
is a time-tested  
Machine, and for  
Hatching qualities  
it is Unbeatable.

These goods will be on view at the NATIONAL POULTRY SHOW, Horticultural Hall, Westminster, also at the GRAND INTERNATIONAL POULTRY SHOW, OLYMPIA.

To those who will not be able to attend either of these Shows, I shall be pleased to send particulars of the following splendid Machines :—

- "GLEVUM" Mammoth Incubator.**
- "GLEVUM" Baby Mammoth Incubator.**
- "GLEVUM" Hot-air Incubator.**
- "GLEVUM" Electrically-heated Incubator.**
- "GLEVUM" Oil-heated, Blue Flame Hover.**
- "GLEVUM" Portable Hover.**

---

**HORACE W. STEPHENS,**  
*Incubator Specialist, Calton Road, GLOUCESTER.*

Telegrams: Tilleywebb,  
Basildon, Essex.

You cannot SPECIALISE in a dozen  
different BREEDS.

We Specialise in Three only—White  
Leghorns, White Wyandottes,  
Rhode I. Reds.

By Specialising we mean Trap-  
nesting all the year round; in-  
dividual breeding and pedi-  
greeing.

To do this thoroughly with  
only Three Breeds in-  
volves a tremendous  
amount of extra  
labour.



**TILLEY & WEBB**



Please  
Send for one of our  
Illustrated Catalogues,  
Giving Pedigree and  
Records.

Prices within reach of Every-  
one's Pocket.

5 per cent. Discount Given  
on Catalogue Prices for all  
Orders Booked with Deposit  
before 1st January.

**TILLEY & WEBB, M.S.P.B.A.,**  
N.U.P.S.,  
BASILDON POULTRY FARM,  
BASILDON, ESSEX.

Stations: Wickford, G.E.Rly.  
Pitsea, M.Rly.

## HEYDOWN STRAINS.

**RHODE ISLAND REDS,  
WHITE WYANDOTTES,  
WHITE LEGHORNS,**

*All have been trapnested with outstanding success  
for 9 Seasons.*

We now offer with the greatest confidence  
some excellent breeding hens in these three  
varieties from **12/6** upwards.

*Individual records will be given.*

**Cockerels** from specially selected Hens  
from **21/-**

**Sitting Eggs 75/- per 100.**

1000 PULLETS now being trapnested.

**JOHN H. DOWDEN & SON,**  
**HEYDOWN,**  
**HEATHFIELD, SUSSEX.**

## GOOD NEW TIMBER!

**WE**

PAY CARRIAGE ON ALL ORDERS £1 and OVER.  
GIVE 5 per cent. DISCOUNT ON ORDERS £10 and OVER.  
GUARANTEE SATISFACTION OR REFUND YOUR MONEY  
GIVE PROMPT DESPATCH.

**YOU**

CAN RELY UPON US SENDING WHAT YOU WANT, AS  
WE WANT TO PLEASE OUR CLIENTS, NOT OURSELVES.

Size.	Per 100 ft.	Size.	Per 100 ft.
	s. d.		s. d.
1 x 2 Battens	2 6	1 x 5 Boards	12 0
1 x 1 "	2 9	1 x 6 "	7 6
2 x 1 "	4 0	1 x 6 "	14 0
2 x 2 "	6 0	4 inch Weatherboards	5 0
2 x 2 1/2 "	8 0	5 inch "	7 0
2 x 3 "	12 6	6 inch "	9 0
2 x 4 "	16 0	1 x 4 P.T.G. Matching	5 6
3 x 1 "	6 0	1 x 5 "	8 6
3 x 3 "	18 0	1 x 6 1/2 "	11 0
3 x 4 "	25 0	1 x 4 "	8 0
2 x 6 "	29 0	1 x 5 "	9 6
1 x 4 Boards	5 0	1 x 6 "	11 0
1 x 4 "	10 0	1 x 6 P.T.G. Flooring	14 0
1 x 5 "	6 6	3 x 5 "	9 6

LARGE STOCKS ALWAYS ON HAND.  
CUT TO ANY LENGTH OR MULTIPLE.

**BROWN & JONES**

Proprietors.  
W. BROWN,  
J. H. IVENS,

**TIMBER MERCHANTS (Dept. M.)**

**MIDDLE WHARF, BAILY ST., CAMBERWELL,  
LONDON, S.E.5.**

NO CONNECTION WITH ANY OTHER FIRM.



**50 PAGE  
'BUCKEYE'  
BOOKLET  
SENT  
UPON  
APPLICATION  
TO OUR  
"A" DEPT.**

Also 3 Mammoth Sizes for 2,400 to 10,368 Eggs

SEE OUR EXHIBIT AT THE GRAND INTERNATIONAL  
POULTRY SHOW, OLYMPIA, DECEMBER 9th-12th.  
Stands Nos. 157, 158, 159, MAIN HALL.

Sole Selling Agents for the United Kingdom:

**W. B. FORDHAM & SONS, LTD.,**

(Dept. A) 36-40, YORK ROAD, KING'S CROSS, LONDON, N.1.

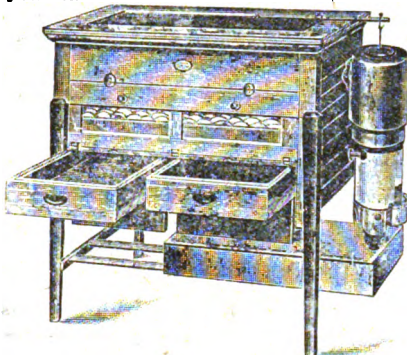
# HEBDITCH'S

## The Famous "HEBDITCH" INCUBATOR.

We will send you this Splendid Hatching Machine on Absolutely Free Trial for Sixty Days, and money back if not to your satisfaction.

Those who use the "HEBDITCH" have no difficulty in reading the thermometer—the inside electric light makes it easy. The extra large lamp does away with the daily filling.

The moisture pan supplies all necessary moisture without trouble. The thermometer can be absolutely depended on. There is no extra charge for any of these items.

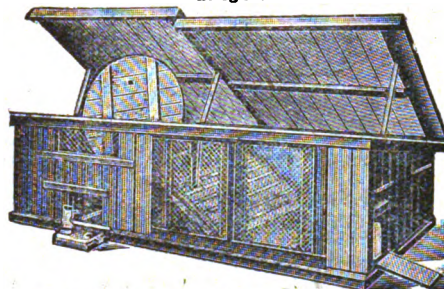


Carriage paid in	Eggs	£ s. d.	Crate	14/6 extra.
England and Wales. Immediate despatch. This incubator is fireproof.	40	£5 15 0	14/6	extra.
	70	6 15 0	15/6	
	100	7 15 0	16/6	
	160	8 10 0	18/6	
	260	11 10 0	23/6	
	390	15 0 0	27/-	

The crate is returnable and money refunded if same is returned within three days after arrival of incubator.

## The Ever-Successful "LORNA DOONE" FOSTER MOTHER.

This wonderful Foster-Mother turns toil into pleasure, uncertainty into certainty, and losses into profit. It relieves you of much care and anxiety and makes the rearing of chicks a real delight.



No. 1 is 4ft. long, 2ft. wide, for 70 chicks.

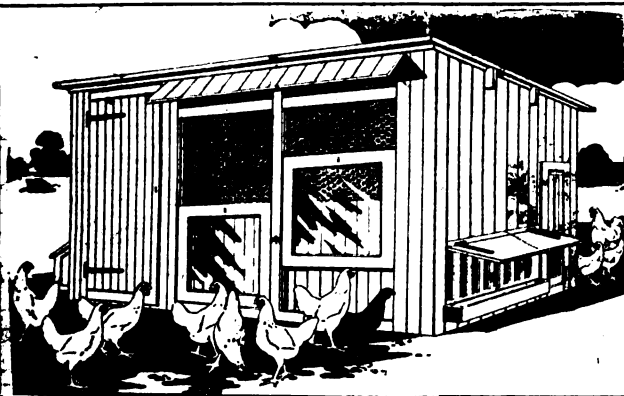
Price £3 18s. 0d.

No. 2 is 6ft. long, 3ft. wide, for 100 chicks.

Price £5 12s. 6d.

It will rear every chick to healthy maturity. It is painted two coats good oil paint, and the roof covered with good stout felt. Promptly despatched and carriage paid to any Station in England or Wales.

## The "EXCELSIOR" Semi-Intensive House.



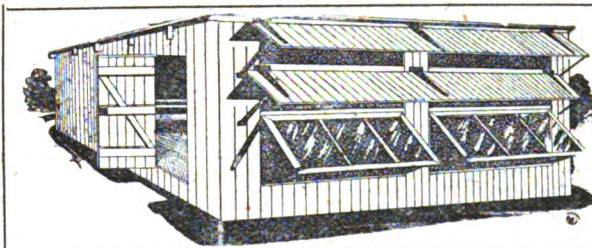
Made of best 1in. V-jointed, tongued, and grooved Red Deal. It is specially suitable for semi-intensive work, and is for this purpose used by thousands of poultry-keepers all over the country. It is provided with a strong perch the whole length of house and a wide dropping board below it. No. 1 is 9ft. long, 5ft. wide, 5ft. 6in. high. No. 2 is 12ft. long, 6ft. wide, 5ft. 8in. high. No. 1 has two glass windows. No. 2 has three glass windows.

Price, No. 1, £7 8s. 0d. Floor 26/6 extra.

No. 2, £9 15s. 6d. Floor 39/- extra.

Carriage paid to any station in England or Wales. Prompt despatch. If pickled with Preserolium by immersion the cost is 1/- in the £ extra.

## The "MARTOCK" Intensive House.



A House specially designed for intensive work, and made of 1-in. tongued and grooved red deal boards. In all details it conforms to what experience shows to be necessary for getting the best results from the intensive system. The framework is extra strong and the joists of the floor very stout and pickled. Carriage Paid England and Wales. Prompt despatch. If pickled with Preserolium by immersion, 1/- in the £ extra.

SIZE AND PRICES.

		Height		Floor Extra.			
No.	Ft. Long	Ft. Wide	Ft. Back	£ s. d.	£ s. d.	For Fowls	
1	6	10	6 1/2	5	2 17 6	12 to 15	
2	10	10	6 1/2	5	4 5 6	20	25
3	10	16	7	4 1/2	7 9 6	40	50
4	20	16	7	4 1/2	14 4 6	80	100
5	30	16	7	4 1/2	20 7 0	120	150
6	40	16	7	4 1/2	26 9 0	160	200
7	50	16	7	4 1/2	32 12 0	200	250
8	60	16	7	4 1/2	38 14 0	240	300
9	70	16	7	4 1/2	44 16 6	280	350
10	80	16	7	4 1/2	50 19 0	320	400
11	100	16	7	4 1/2	63 3 6	400	500
12	120	16	7	4 1/2	75 8 6	480	600

Send for particulars of nine other sizes.

## HARRY HEBDITCH, Ltd.,

Desk J, The Poultry Appliance Works, MARTOCK, SOMERSET.

Send for the Free Catalogue of Poultry Appliances and Poultry Keeper's Requisites.



If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
**The Largest British Mutual Life Office. AUSTRALIAN MUTUAL PROVIDENT SOCIETY.** (A.M.P.) Established 1864.

ASSETS	£48,000,000	NEW ORDINARY BUSINESS for 1921	£1,200,000
ANNUAL INCOME	£7,000,000	TOTAL ORDINARY ASSURANCES IN FORCE	£127,000,000

**PURELY MUTUAL. ALL PROFITS BELONG TO POLICY HOLDERS. EVERY YEAR A BONUS YEAR.**

Cash Surplus (Ord. Dept.) Divisible, 1921, £1,400,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War.

London Office: 73-76, KING WILLIAM STREET, E.C.4. W. C. FISHER, Manager for the United Kingdom.

A Small Picked Flock of WHITE WYANDOTTES, with undoubted Stamina and Unequally Consistency.

WINNERS OF AWARDS FOR SEVEN CONSECUTIVE YEARS AT HARPER-ADAMS' COLLEGE TRIALS.

AN ACHIEVEMENT NEVER ACCOMPLISHED BY ANY OTHER BREEDER.

Winners of Silver Medal, Harper-Adams' College, 1922.

Winners of First-Class Certificate, and finished fifth, Harper-Adams' College, 1921.

Winners of First-Class Certificate, and finished fourth, Harper-Adams' College, 1920. This pen of birds, No. 61, laid 171 ozs. over and above the average of 2 ozs. for every egg laid, and was considered by other competitors to be the best pen of Wyandottes in the Trials.

Single Pen 26. Winner of First-Class Certificate, and finished third in value, fourth in weight, with 260 eggs, Harper-Adams' College, 1920.

Single Jen 10. Winner of Second-Class Certificate, with 249 eggs in 44 weeks at Harper-Adams' College, 1919.

Winner of First-Class Certificate at Harper-Adams' College, 1918, with records up to 263.

Winner of First-Class Certificate at the National Laying Trial, Bentley, 1918.

Winners of Bronze Medals, Harper-Adams' College, 1917.

Pen 98. The World's Best by Test Wyandottes. Winners of Gold and Silver Medals, and Supreme Champions in the one and two years' Laying Trials at Harper-Adams' College, 1915-16-17. Six birds laid 1,513 eggs in 12 months, an average of 252 eggs per bird, and a total of 2,322 eggs in two years. This pen laid more eggs in two winter months than any other seven pens in the same section put together. Also Breeder and owner of the only pen of Wyandottes in the "Daily Mail" Trials that have not laid a Second Grade Egg since weight of egg was fixed at 2 ozs. Unfortunately, one bird died at the commencement of Test.

Reports show that my clients occupy prominent positions both in England and America.

A few Good Breeding Hens for Sale the last week in April. Also a few good Cockerels, for immediate delivery, all bred from individual hens with records over 220 eggs in 48 weeks ("Official"), and not less than 24oz. egg. Hen hatched and reared, and never had a minute's sickness in their whole life.

They are well matured, and just as fit as ripe plums.

For full particulars you can either come or write.

EDGAR WATSON,  
Gate House Farm, Earby, Near Colne, LANCS.

### MUSTARD FOR POULTRY.

Nature's Vegetable Tonic for Winter Months warrants the outlay by larger Egg Yield.

2 lb. 2/8, 4 lb. 4/4, 9 lb. 9/-, per Parcels Post. 36 lb. 25/-, 55 lb. 36/-, carriage paid by rail. Cash with order. "Poultrykeeping for the Million in the British Isles," free on request

**DOBBIE & CO.,**

WAVERLEY WORKS, LEITH, N.B.

### LAKERS LODGE, Loxwood, Sussex.

About four miles from Rudgwick Railway Station, five miles from Billingshurst, and about ten miles from Horsham and Guildford.

MESSRS.

### JOHN CHURCHMAN & SONS

Are favoured with instructions from H. Nelson, Esq., to Sell by Auction on the Premises,

On Thursday, 14th December, 1922

About 400 Head of

### Pure Bred POULTRY,

Including White Wyandotte, Light Sussex, Rhode Island Red, and White Leghorn.

### 20 Pure Bred Runner Ducks,

Numerous Poultry Requisites, consisting of 4 Semi-Intensive "Hebditch" and other Portable Poultry Houses,

"Phipps'" Incubators, Foster Mothers; Brooders; about 3,000 Yards Wire Netting, Corn Bin, Quantity of Stakes, etc.

May be viewed on the Morning of Sale, which will commence at 11.30 a.m.

Catalogues may be obtained, in due course, of the Auctioneers, Horsham.

Telephone: 47

FOR SALE.—20 March hatched WHITE WYANDOTTE Cockerels, 20 Pullets, March hatched, commencing to lay, 15 1921 WHITE WYANDOTTE Hens, all through moult.

The Cockerels and pullets are sired by a Cockerel bought direct from Bostock Smith, mated to Cam's hens.

1922 Cockerels, 15/6 and 21/- each; Pullets, 21/- each; 1922 Hens, 10/- each. Sent on four day's approval on receipt of cash.

**E. PEEL, Embsay, Skipton, Yorks.**

### PROLONGING THE ECONOMIC LIFE OF THE HEN.

Can be fairly easily accomplished if birds are fed on GOOD FOODS, PURE FOODS, SIMPLE FOODS.

As the following for instance:—

Newman's Laying Mash	...	10
Newman's Breeding Mash	...	10
Maize Germ Meal	...	10
Maize Gluten Meal	...	10
Maize Gluten Feed	...	10
Maize Meal	...	10
Kibbled Maize	...	10
Wheat	...	10
Clipped Oats	...	10
Broad Bran	...	10
Fine White Middlings	...	10
Ordinary Middlings	...	10
Sussex Oats	...	10
Limestone Grit	...	10
Cockle Shell	...	10
Peat Moss	...	10

Bags Free. Carriage Forward

Also "Nitrophos" and "Bycolla" Fish Meal, Meat, Biscuit, Clover, Alfalfa Meal, etc., etc.

### FRANK SHEARN & CO., Ltd

MIDSOMER NORTON, SOM.

'Phone 51.

BARNEVELDER PULLETS. Also Good Breeding Pens of 20-21 Bantams, Wyandottes.

LAKENVELDER. Sumatra, Polish, Plymouth Rocks, and all other Varieties. Also all kinds of Water Fowl, Pheasants, White, Black Winged blue and Specier Pea Fowl, Partridges, etc. Send Threepence for Reply. Orders booked now for Eggs.

G. VAN HECK, 199, Amsteldyk, Amsterdam. Many Testimonials as to Enormous Success.

### ANTI-DIPHTHERIC SERUM.

Biological Institute Merieux,

Cures and Prevents

### DIPHTHERIC ROUP

If not interested, then don't bother to visit Stand 23, National Show, Royal Horticultural Hall, December 5th-7th, and Stand 124, Grand International, December 9th-12th.

Sole Agency—M. McLAREN.

185, Handside Lane, Welwyn Garden City, HERTS.

### WHITE LEGHORNS.

Tom Barron.  
Good Egg Strain.

1922  
PULLETS and COCKERELS.  
From 6/- per bird.

CAPTAIN H. OSCAR PERKINS.  
M.S.P.B.A., M.N.U.P.S.,  
The Poultry Farm, Tendring, ESSEX.

**KHAKI CAMPBELL DUCKS.**—FIRST and GOLD MEDAL at the National Laying Test, 1921-22—1,188 Eggs.

**BUFF ORPINGTON DUCKS.**—Our Pen is now Leading its Class at the National Laying Test, 1922-23.

**PELLING PEDIGREE POULTRY FARM, HAYWARD'S HEATH.** Miss BARBARA RAYE (Managing Partner)

# My EXHIBITS at the OLYMPIA will be

On Stands 152 and 153, as follows :



**The "POPULAR" BROODING HOUSE.**

10ft. long, 10ft. wide, 7ft. front, 5ft. back, divided, to take two of my Large Hovers (100-150 chick size), £23 15s. 0d. It is also fitted with dropping board and perches, so that it can be used as a Colony House, at 20s. extra. These are removable. Accommodation up to 50 Leghorns to laying point. Two Large Hovers £2 10s. 0d. each.

## The "C.A.S.H." SAFE INCUBATOR.

WHICH CAUSED SO MUCH INTEREST

AT THE DAIRY SHOW,

Will be Shown in Three Sizes.

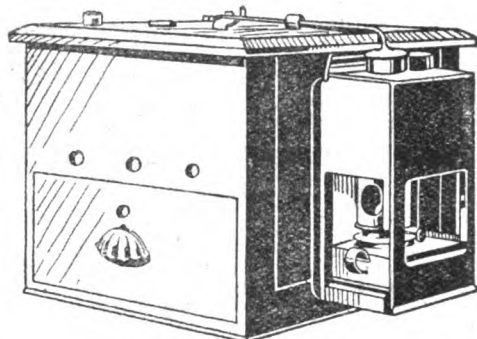
25-eggs, £2 10s. 0d.; 50-eggs., £3 7s. 6d.

100-size, £4 15s. 0d.

Carriage Paid.

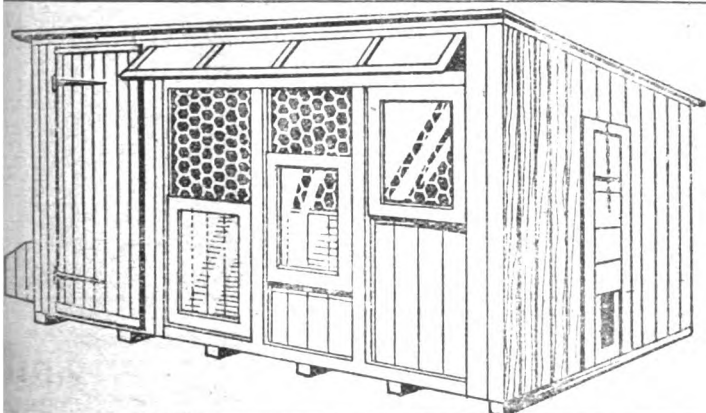
Packages, 2s. 6d., 5s., and 7s. 6d.

THIS MACHINE HAS NOW PROVED ITSELF A MOST EXCELLENT HATCHER OF DUCK EGGS.



SHOWING EXTERIOR.

**The "C.A.S.H." SAFE INCUBATOR.**  
Provisionally Protected.



## The "FAVOURITE" LAYING HOUSE.

The most favourite House ever introduced to the poultry world. The door can be either put in end or front, as illustrated. The prices include nest boxes, felted roof, penetrating floor, dropping board and perches, glass shutters and glass hood. Please note the glass shutters are the size as shown. Some illustrations are misleading. The sizes are guaranteed.

Size.	Long.	Wide.	High.	Price	Size	Long.	Wide.	High.	Price
1	6ft.	4ft.	5ft.	£7 5 0	5	9ft.	6ft.	6ft.	£12 7 6
2	6ft.	5ft.	5ft.	£8 15 6	6	10ft.	6ft.	6ft.	£13 7 6
3	7ft.	5ft.	5ft.	£9 15 6	7	12ft.	6ft.	6ft.	£13 19 0
4	8ft.	5ft.	5ft.	£10 13 0					All Carriage Paid.

The largest size, 12ft. long, 6ft. wide, will be on My Stand, and it will pay you to come and inspect it before placing your orders. The value given here is astonishing, and includes extras as mentioned above.

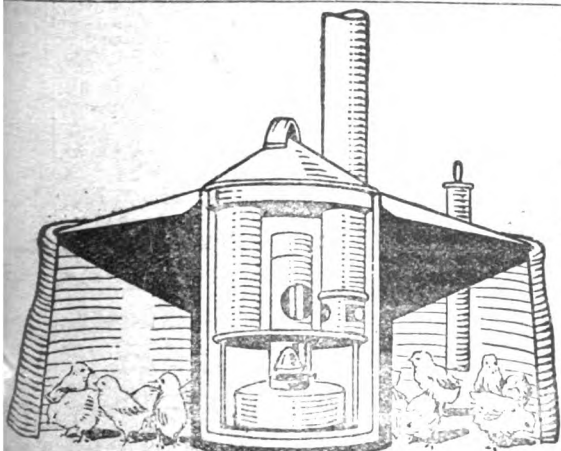
**My No. 2 Unit complete with large Hover on View at £8 2 6 carriage paid.**  
A new designed House for Trapping Ducks, 3 div. £1 19 0; 4 div. £2 12 0; 5 div. £3 5 0

You should certainly not miss this Exhibit.

Splendid Earthenware Troughs, Galvanised Iron Troughs, Drinking Fountains, Dry Mash Hoppers, Trap-nests for Hens, Fattening Pen, Two Compartment Hen Coops, Chicken Utensils, Hand Sprays, Etc., Etc.

## ON MY STAND No. 110

I shall have A SPLENDID COMBINED HOUSE and RUN, 9ft. long, 3ft. wide, to take six to eight laying hens, and priced at the low figure of £3 5s. 0d. For Suburban Use this is ideal. A FULL COLLECTION OF POULTRY BOOKS WILL BE ALSO ON SHOW, together with full Collection of Incubators, Hovers, and all of my Galvanised Iron Goods. Doubtless the best Collection in the Show.



## THE NOTED "PIONEER" HOVER.

Will be on show on all 3 stands,  
No. 152, 153 and 110.

This Hover is even better than it has ever been, having a splendid burner now fitted. 100 to 150 Size, £2 10s. 0d.; 50 to 70 Size, £2 4s. 0d.

All Goods carriage paid, but 5 per cent. extra to be added for The Channel Islands and beyond the Firth of Forth, and 10 per cent. to Ireland.

MY REPRESENTATIVES WILL EXPLAIN ALL YOU WISH TO KNOW.

**C. A. SYDENHAM HANNAFORD, M.S.P.B.A.**

The South of England Poultry Yards and Appliance Works,

**Hamworthy Junction, Dorset.**

INTERIOR OF HOVER SHOWING CHICKS.  
Exporters to all Parts of the World.



# MILKO MILK POWDER

Is invaluable for all Poultry and Chicken Mashies, supersedes fish or meat meal, or any other animal matter. Get a supply of this Milk at once, and add to all your mashies. Recommended by all poultry experts, and used on many of the largest poultry farms in the country.

Milko Milk Powder is the best obtainable—therefore the Cheapest. All who mix their own foods should order NOW, as the demand is great. 1 cwt., 28/-; 5 cwt., £0 15s.; 10 cwt., £13; 1 ton, £25.

**MILKO FOOD CO.,**  
**FLEET HOUSE, FLEET STREET, LONDON, E.C. 4.**

## COCKERELS.

W. Wyandottes, Wilts' Silver Medal; W. Leghorns, 5th. National Egg Laying Test, 1922; L. Sussex, Miss Dawson's Gold Medal, February and March hatched. Strong, Vigorous Birds.

All birds offered have been inoculated with latest American Serum as a preventive of disease.

Price, 32s. Each, carriage paid.

**Mrs. KNIGHT, S.P.B.A., N.U.P.S**  
**ODSTOCK, SALISBURY.**

## "ZENITH TRAP-NEST"

As used by the Large Poultry Keepers. Also in the Premier Laying Competitions.

FRONTS, 3/- each, carriage paid.

**WIGNALL,**

Poultry Appliance Builder,  
LONGTON, Near PRESTON.

FOR INTENSIVE  
EGG CULTURE.

## RENTOX

— IS — Regd.

## A NECESSITY.

RENTOX is manufactured from fresh, sweet blood.

RENTOX is sterilised.

RENTOX contains nearly 90 per cent. Albuminoids.

RENTOX contains no spice, no drugs, no chemical, no grit.

RENTOX contains no bulk waste.

RENTOX is ALL FOOD — PURE FOOD.

7lb. bag sent post free on receipt of 5s. postal order.

**Do Not Fail to Visit our Stand  
No. 47 at Olympia.**

**Midland Cattle Products, Ltd.,**  
**BORDESLEY STREET,**  
**BIRMINGHAM.**

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

Fertile Eggs, 7/6 doz.; 55/-, 100.

Free Range Cockerels and Drakes, 15/-.  
Hundreds sold last season.

1921 Hens, 10/- 1922 Ancona Pullets only 10/- each.

Breeds kept: Langshans, Minorcas, Faverolles, Houdans, Anconas, Campines, Wyandottes, Light and Speckled Sussex, B.I.F. Brd. Bks., Buff and Brd. Bks., Bl. W. and Brn. Leghorns, Buff and White Orpingtons, Ayresburies, Khaki-C's., Buff Orpingtons and Runners (both colours).

## MELLIN Bros.

White Wyandotte and White Leghorn  
Pedigree Pullets.

From their "World's Record" Gold and Silver Medal Winning Large Egg Strain.  
Eggs for Hatching Booked.

For Prices, etc., write—  
**HOWGILL, RIMINGTON, CLITHEROE.**



**"UP-TO-DATE"**  
**BOXES**  
(Wooden).

For EGGS and Chicks are Second to none and have been

Officially passed by all Railway Companies, and are guaranteed to comply with their regulations.

Illustrated List Free.  
Special Discount to S.P.B.A. Members.

**W. & T. MARKHAM, S.P.A.**  
(Dept. A.),  
QUENIBOROUGH, LEICESTER.

*Year by year your flock average  
will grow better and better if you  
purchase your*

## Stock Cockerels and Sitings

FROM THE

## House-of-Wenny,

*Rhodes Minnis,*

## CANTERBURY,

because their LEGHORNS, LIGHT SUSSEX and MENDELS, are genuine pedigree birds, having been carefully trap-nested and mated for many years.

## Strains! Strains!! Strains!!!

The Laying Strains of the moment.  
The Laying Strains which are setting NEW Standards.  
The Laying Strains which are breaking all past World's records are:—

## Frank SNOWDEN'S Strains

The CONSISTENCY of my SUCCESSES in the Great International Laying Tests of England and America, together with the continuous report of Success from my Clientele, give Positive Proof that I Possess Produce and Purvey some of the most consistent layers in the World.

My List of Honours Includes—Premier Cups, Gold, Silver and Bronze Medals, Ribbons and Certificates.  
In the current Year's laying competitions Frank Snowden's birds held 7 First Positions at the end of the first six months.

At the end of the 10th month they still hold—  
1st in "Daily Mail" £1,000 Test. 1st in National Championship Test. 1st in Harper-Adams' College Test. 1st in Missouri, U.S.A. Test. 1st Highest Individual Record, Missouri Test. 2nd Highest Individual Record, "Daily Mail."

COCKERELS and PULLETS closely related, and Brothers and Sisters to above.

Prices from 21/- to £5 5/-, according to age and Pedigree.  
All birds carriage paid and on approval.

**WHITE LEGHORNS—WHITE WYANDOTTES—  
RHODE I. REDS.**

Your enquiry is a Pleasure because You can be  
WELL SERVED by

**FRANK SNOWDEN,**

RAIKES HALL, Cowling, Kelghley.  
POULTRY FARM,

'Phone: CROSSHILLS 8.

**WORLD RECORD s.c R.I.R. PULLETS and COCKERELS,  
FAWN and WHITE INDIAN RUNNER DUCKS and DRAKES.**

*All other Breeds now sold for this year.*

**SITTINGS and DAY-OLDS of RHODE ISLAND REDS.**

**WHITE, FAWN, BLACK, FAWN & WHITE INDIAN RUNNERS.**

**KHAKI CAMPBELL, BUFF ORPn., & COALEY FAWN DUCKS.**

*May now be booked for next season.*

**THE CHALET IDEAL HATCHING, REARING  
AND TRAP-NESTING DUCK HOUSE**

**THE CHALET IDEAL EGG RECORDING DUCK HOUSE.**

**THE CHALET IDEAL PEN and FLOCK DUCK HOUSE.**

*Illustrated Particulars on Application.*

**A. HAROLD PAINE,**

Member Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
**THE CHALET, BURGESS HILL, SUSSEX.**

## HIGH PEDIGREE COCKERELS

Individually Bred.

## WHITE LEGHORNS.

	Dam.	Sire's Dam.	Feb.	Mar.	Apr.
275 24oz. egg.					
Bentley Non-Such					
23 in 48 weeks at					
1920 National.					
Heaviest layer in					
the whole test	282 24oz.				
	egg by 264	42/-	35/-	30/-	
474 24oz. egg					
two years	287 24oz.				
	egg by 295	35/-	30/-	27/-	
461 24oz. egg					
two years	287 24oz.				
	egg by 295	32/6	27/6	25/-	
24 24oz. egg					
	282 24oz.				
	egg by 264	25/-	20/-	15/-	

Also S.c. Anconas and S.c. Rhode Island Reds.

*Exceptionally fine specimens, combining  
HIGH FECUNDITY with STAMINA.*

Few TESTED COCKS, 1921, Trap-Nested HENS, and 1922 PULLETS for Disposal.

I guarantee every Egg, Chick and Stock Bird to be laid, hatched and reared on my own farm, which is the leading Pedigree Trap-Nested Farm in North Yorks.

**Satisfaction Assured.**

**ROWLAND COOKE, S.P.B.A.,  
N.U.P.S.  
KILDHOLME POULTRY FARM  
KIRBYMOORSIDE, YORKS.**



**BRITISH  
AND  
BEST.**  
Established  
1883.



Our BEVEL ENDED SPRING-CLIP CELLULOID RINGS—The best and most popular of all patterns. Ends bevelled—nothing projecting—giving a neat jointless appearance.

NUMBERED CELLULOID RINGS,  
12 Colours, 12, 10d.; 36, 2s. 1d.; 72, 3s. 9d.  
CELLULOID RINGS (without numbers),  
18 Colours, 12, 9d.; 36, 1s. 9d.; 72, 3s.  
3-COIL SPIRALS, 12 brilliant colours,  
12, 9d.; 36, 1s. 9d.; 72, 3s.

IMPROVED INTERLOCKING ALUMINIUM RINGS, numbered consecutively or year,  
12, 9d.; 36, 1s. 9d.; 72, 2s. 6d.

CHICKEN RINGS. Prices as Listed.

All Rings Post Free. The Trade Supplied

**HUGHES, 27, HAMPTON HILL,  
MIDDLESEX.**

If you get them from "HOMELAST" it means  
**SATISFACTION!**

**ANCONAS, and THE ADJUSTABLE  
TRAP-NEST FRONT**  
(Prov. Pat.) SAMPLE, 3/6.

ILLUSTRATED CATALOGUE FREE ON REQUEST.

**VICTOR P. WILLIAMS,**  
Homelast Poultry Farm, BEXHILL, SUSSEX  
*A Small Farm with a Big Reputation.*

## MINERAL SALTS

A High-grade Corrective, embodying Laxative and Valuable Iron Tonic Properties, which should be used regularly, either in the mash or drinking water twice a week. To assist recovery from the moult and toning up the system it has no equal.

In 2/6 & 3/9 Patent Air-tight Tins  
Carriage Paid, with full directions.

The Cost next to nothing—  
**LESS THAN A FARTHING for 4 BIRDS**

Price List of all Foods and Samples  
Free.

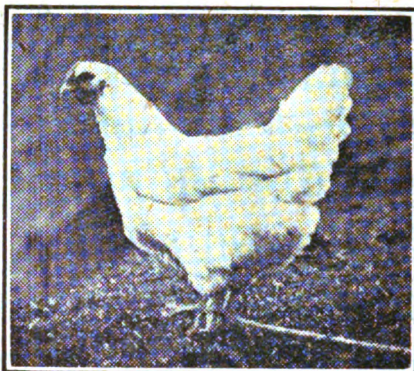
**ALBION THORPE & SONS,  
RYE, SUSSEX.**

Makers of the Genuine.  
SUSSEX GROUND OATS.

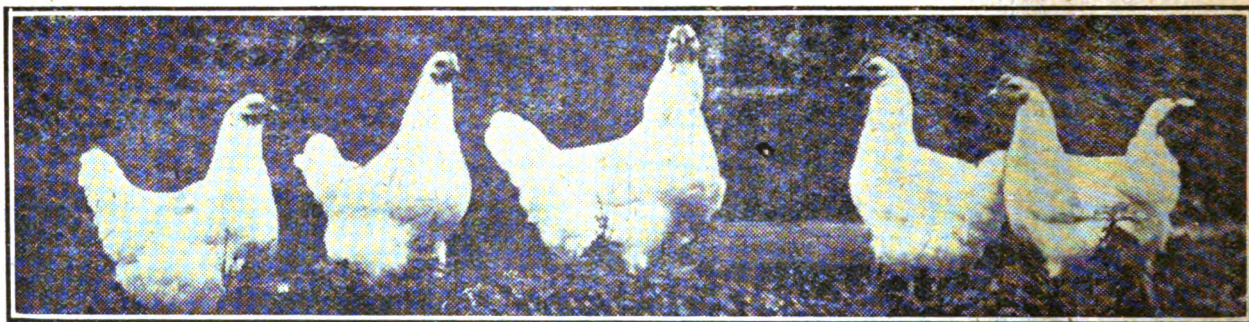
## SPECIAL IRONMONGERY BARGAINS

Hinges, Butts, 1s.; Back Flaps, 1s. 8d.; Tees, 3s. 3d. per dozen pairs. Best 5in. Press Locks, 1s. 2d.; Strong Rim Locks, 1s. 9d.; Padlocks, 1s. each. Mixed Screws, about two gross packets, 1s. Hasps and Staples, 1s. 8d.; Knobs, 10d.; Iron Buttons, 6d. per doz. Jack Chain, 1s. 6d. doz. yards. Best Bright Wire Nails, 1 1/2in., 1 3/4in., 2in., 2 1/2in., 2 3/4in. to 6in., 2s. cwt. Bolts and Nuts, 3s. gross.

**SURREY VALUE Co., Redhill.**



Pullet Bred from my Pedigree Flock, and in this year's Lancs. and Cheshire Test.



The Winners of the Welsh Cup at the National.

**Mrs. ALEC WILSON**

OFFERS

# Utility White Wyandotte Cockerels

from her prize winning trap-nested stock from 42/- each.

*She is also booking Orders for*

**Hatching Eggs from 12/6 per dozen**

**Day-old Chicks from 25/- per dozen**

*Send for Free Catalogue to*

**Garth Wyandotte Farm,**

**GARTH, BRECONSHIRE.**

*Quality and Practibility are  
the First Essentials to Success.*

SO DO YOUR POULTRY THE

# VENN CARR Way.

We started 13 years ago as backyarders with 20 birds.  
To-day we have nearly 2,000 and 85 acres, so

*Don't fail to visit our Stand, No. 10,  
at Westminster Show, Dec. 5th to  
7th. Also the International Poultry  
Show, Olympia, Dec. 9th to 12th,  
Stand Nos. 161-162.*

Where We shall be Showing a Range of the Best

## POULTRY HOUSES,

Together With Our Perfect

PATENT AUTOMATIC DRY MASH HOPPER,  
PATENT CORN SCATTERER,  
PATENT CORN FEEDER,  
PATENT FOUNTAINS, and TRAP-NEST FRONTS,  
Etc., Etc.

Send for Our Illustrated Catalogue (Post Free).

**VENN CARR, Ltd.,**

Appliance Works, Mill Street, MAIDSTONE.

'Phone 542.

# 'FAM' Poultry Foods

For Quality and Price we ask your attention and comparison.

We are steadily making for the 1914 level.

Quality Always the same, THE BEST.

	Per Cwt.		Per Cwt.
'FAM' Dry Chick Feed		'FAM' Dry Mash (Egg Producer)	
1st month ...	21/-	... 16/6	
'FAM' Ditto No. 2		'FAM' Chick Mash (Body Builder) ...	17/6
after 1st month ...	17/6	'FAM' 'ClofaKa' Meal	
'FAM' 'Scratch-for-It' 14/-		Per 100 lb. 15/-	

All Goods Carriage Paid.

Maize Gluten.	Linseed Meal.	Dried Yeast.
Maize Germ Meal.	Biscuit Meal.	Dried Butter Milk
Maize Flake.	Meat Meal.	or Separated Milk
Maize Kibbled.	Blood Meal.	Dried Full Milk.
English Bean Meal.	Fish Meal.	Oyster Shell & Grit.
Soya Bean Meal.	Sussex G. Oats.	

**Philip Church & Sons, Swan  
Wharf,  
BISHOPS STORTFORD.**

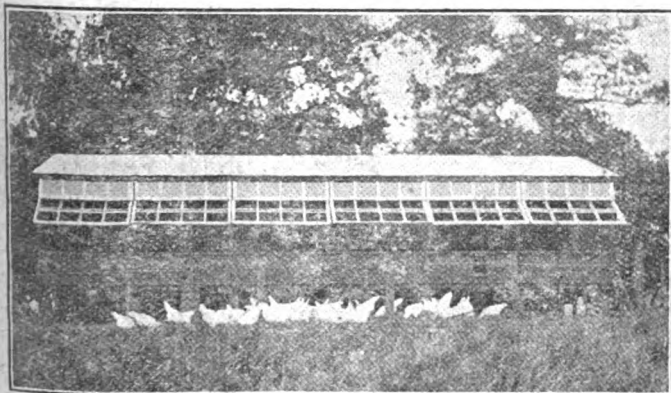
'Phone: 139.

# EXTENSIBLE UNIT BUILDINGS.

*Solve the vexed problem of maximum lighting without draft risk*

**In INCUBATOR, BROODER, LAYING and BREEDING HOUSES.**

Extensible and convertible, in 5 ft. sections. Made to your own specifications and ideas if desired.



30ft. x 16ft. House supplied to The Misses Ransford, Perseverance Farm,  
Pensford, nr. Bristol.

A Demonstrating Plant has been erected adjoining works, consisting of breeding pens stocked with the Rev. Charles Birkett's Bentley Winning Strains, i.e., Black & White Leghorns, Wyandottes, and R.I.R.'s. There is an Incubator House equipped with Two HEARSON 120 capacity Incubators a Brooder House fitted with HEARSON'S Brooder Stove, 500 chick capacity, and Rearing House on Rev. Charles Birkett's lines. Come and see the above in full operation before you decide on your coming season's arrangements.

**W. H. COLT, M.S.P.B.A. M.N.U.P.S. Bethersden, Kent.**



# Honours

Assure  
Robust, Prolific, Birds'  
Feed.

## CHICK FOOD

At the first glance it looks like any of the hundred-and-one other dry chick feeds on the market, but on closer examination it is seen to be quite free from injurious dust and rubbish (is guaranteed free from grit, shell and rice). Is well graded and contains all the essential grain and seeds most suitable for building up robust, prolific birds. This mixture is always the same, being made up to a standard quality, no ingredient being omitted when high priced owing to scarcity.



The hen that earns her daily bread  
Grows from the chicks that HONNORS fed.

Send now for samples and prices, post free. Special Terms to large users. Trade supplied.—Honours, Ltd., Poultry Food Dept., Maidstone.

### FRANCIS J. MARSTON,

Member: S.P.B.A. and N.U.P.S.,  
British Black Leghorn Club.

RHODE ISLAND REDS, S.C.  
WHITE WYANDOTTES,  
WHITE LEGHORNS,  
BLACK LEGHORNS.

5th MIDLAND LAYING TEST in  
R.I. Reds.  
5th TOTTENHAM U.P.S. TEST, in  
Light Breeds.

ALL BIRDS TRAP-NESTED and  
GRADED.

CATALOGUE ON APPLICATION.  
The Biddenden Poultry Farm,  
Biddenden, Kent.

### NORTHCOTE BUFF ROCKS.

The Breed and Strain you want if your  
object is Winter.

Eggs on a cold clay soil.  
Harper-Adams has proved their merit.  
Six Pullets averaged 207 Eggs in 48 weeks.  
Laid Section for six winter months by  
50 eggs.

All six laid over 100 Eggs each in first  
150 days' laying.

NORTHCOTE LIGHT SUSSEX  
Have proved their merits wherever they  
have competed as The Strain for Large  
Eggs.

If Official Testimony and Proof Fail,  
A Trial will convince you.

A. A. PLIMPTON, Northcote Poultry Farm,  
WALKINGTON, BEVERLEY, E. YORKS.

For Poultry Houses of Quality and  
Neatness, made by Skilled Mechanics,  
TRY

### J. BURTON CARTER,

Winner of the First Prize at the South  
Durham and North Yorkshire Show, for the  
Most Improved Poultry House, which is  
adaptable to every stage of poultry life,  
and is now on the market.

Complete in every detail, and Carriage Paid  
to any part of England for the sum of  
£4 15s. 6d.

Send for Catalogue and Compare Prices

J. BURTON CARTER,  
Middleton St. George,  
Co. DURHAM.

## The STANDARD INCUBATOR



### The Perfect Hatcher.

SAVES LOSS AND WORRY.  
WORKS AUTOMATICALLY.  
Electric Light fitted for inspection  
of Eggs, and Thermometer.  
Chicks removed from Drying Box  
Nursery without exposing eggs.

### The "Positive" Hover

Patented.  
Eclipses all others.  
No Lamp, Coal, Stove or Smoke Pipe.  
Regular Heating Without Risk.  
Simple and Economical.  
Refill with Carbon Fuel once a day.



Capacity up to 100 Chicks.

Price 60/-

Write for List:—

DAIRY OUTFIT CO., Ltd.,  
King's Cross, LONDON, N.1.

### AUSTRALORPS FARMS, LTD.

Importers, Breeders of Australian Prolific  
Laying

### AUSTRALORPS

Cockerels and Pullets from £2 2s. 6d. each

Eggs and Day-Olds Ready from December

24 Pens (Australorps) Mated.

New Illustrated MATING LIST Free.

Street Court, Kingsland,  
Herefordshire.

OLYMPIA STAND No. 67.

BEAUTY — with — UTILITY.  
Gionville Bungalow Poultry Farm, Burstow,  
HORLEY, SURREY.

J. S. PENWICK, P.C., N.U.P.S., S.P.B.A.  
Member of Poultry Club Utility Committee.  
Breeder and Successful Exhibitor of High-  
Class Utility Poultry.

White Wyandottes. Black La Bresse.  
Light Sussex. White La Bresse.  
Grey La Bresse.

Also Exhibition Croad Langshans and  
Black Sumatra Game.

Utility Breeding Stock, selected by W.  
Powell-Owen, Esq. Nearly all pens trap-  
nested. Second with Wyandottes, S.E.A.  
College. Fye Winter Laying Test, 1921-22.  
Over 200 prizes and awards in 15 months at  
all the Leading Shows.

Poultry Club Utility Challenge Cup won  
four times, also Silver and Bronze Medals.  
Handsome Illustrated Catalogue free on  
application in mid-December.

Sitting of Eggs, Day-old Chicks, and a  
Limited Number of Stock Birds for Sale.



# Mrs. A. J. PAIN

Mrs. A. J. Pain is a well-known Lecturer, a member of the Poultry Club, the Scientific Poultry Breeders' Association, Fellow of the British Society of Aviculture, Member of the National Utility Poultry Society, and on the Committee of the Utility Duck Club—Patron of the Blue Leghorn Club.

Heath Park House, Leighton Buzzard, Beds.

The following pamphlets have been written by Mrs. A. J. Pain:—

## "POULTRY KEEPING on the INTENSIVE SYSTEM."

(Third Edition) 1s. 6d., post free.

"Mrs. A. J. Pain is the greatest living authority on the Intensive System."—  
"Vide the Press."

"By following the advice in your 'Intensive' Poultry Book, I have had 1,378 eggs from seven Leghorn Pullets in ONE year."

N.B.—The feeding in this Pamphlet is suitable for birds kept on any system of Poultry Keeping.

## "EGGS GALORE" from the Indian Runner Duck.

1s. 6d., post free.

"I would place your books on Poultry and Ducks at the head of any books written on these subjects."

"I have been so successful with my Runners since adopting your methods and feeding."

N.B.—The management and feeding in this book is suitable for any breed of Duck.

Pupils thoroughly trained. Highest Testimonials. Terms moderate.

Address:—**Mrs. A. J. PAIN,**

Heath Park House, Leighton Buzzard, BEDS.

## "MULTEGG" Laying—Meals

Meal to the progressive poultry keeper, because they reach the highest standard of consistent quality and value.

Liver Oil has proved such a wonderful addition to poultry foods that no up-to-date poultry farmer can afford to ignore its use.

By an entirely new method only obtained after exhaustive experiments, we have succeeded in solving the difficulty of an exactly uniform impregnation. Every Particle of our "MULTEGG" LAYING MEALS holds its correct quota of Cod Liver Oil.

"MULTEGG" Intensive Laying Meal containing Alfalfa	22/-
"MULTEGG" Laying Meal	21/-
"MULTEGG" Dry Mash	19/-
SUSSEX GROUND OATS, guaranteed 95 per cent. pure Oats, stone ground	20/-

Cash with Order. Bags free. Carriage Paid to nearest Railway Station, or to your door if within railway delivery area. Therefore your first cost is the last cost.

Interesting Pamphlet, Price List, and Samples of all "MULTEGG" Specialties post free on application. 5 per cent. Discount on all orders received through the S.P.B.A.

**R. SMITH & SON, S.P.B.A.,**  
Specialists in Poultry Foods,  
Queen Street Granaries,  
HEMEL HEMPSTEAD, HERTS.

The value of Poultry can only be recognised when fed on properly proportioned food.

Therefore send to us to-day for Price List and Samples of the

## "WILLOW" POULTRY FOODS

Our Complete Laying Meal will stand any test for Purity.

Special Discount to S.P.B.A. Members.

Sole Agents for Scotland for Ibbotson's Poultry Appliances.

Note Address:—

**Falkirk Poultry House Co.,**  
FALKIRK and MILNATHORT.  
Telephone 76.

## R. LAVALLIN PUXLEY, Windyridge Egg Farm, WOODCOTE, OXON.

Now booking Sitings from finest trapped White Wyandottes, winter records 40-90 (all L2) year flock average 192 large eggs; mated finest pedigree cockerels. Black Leghorns, finest selected winter layers (Ingles' strain), mated to superb males (Forges).

10/- per 12. 37/6 per 50.

Few Magnificent Cocks, Cockerels and Pullets for Sale.

N.B.—All my own stock to be reared from above pens.

Quotations for Quantities.

## ROBERT MILLER,

The Poultry Appliance Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

At OLYMPIA, LONDON.

## THE GREAT INTERNATIONAL SHOW,

December 9-12. STAND 145.

Robert Miller's Houses, Incubators Brooders and Exchequer Leghorns. THE GREAT CENTRE OF ATTRACTION, awarded SILVER MEDAL (highest award), at the GREAT ROYAL LANCASHIRE SHOW, in September.

AGAINST ALL COMERS.

Beautiful Art Catalogue, post free, from

— **ROBERT MILLER,** —  
DENNY, SCOTLAND.

## Best English Galvanised Netting.

Mesh.	1ft.	2ft.	3ft.	4ft.	5ft.	6ft.	7ft.
	wide.	wide.	wide.	wide.	wide.	wide.	wide.
lines.	8/2	14/11	21/3	28/3	35/5	42/6	20
ins.	5/1	9/1	12/5	16/7	20/9	24/10	19
ins.	3/8	6/6	9/1	12/1	15/1	18/1	19

All Rolls 50 yards.

Any other Mesh or Gauge Quoted For.

26 10s. 0d. Orders Carriage Paid.

44 Page Art Catalogue Free

J. A. SUTCLIFFE,

168 Whitegate Drive, BLACKPOOL.

Telephone No. 532.

## Mrs. PIERCE-GROVE, M.S.P.B.A., N.U.P.S., STOKE COURT.

Breeder Utility White Leghorns and White Wyandottes.

NEW BLOOD FROM AMERICA.

Don't Miss this chance of improving your Pens.

FOR SALE.

WHITE LEGHORN COCKERELS.

WHITE WYANDOTTE COCKERELS.

Early February and March hatched, splendid, well-matured, and vigorous birds, bred from my own well-known strain 1921 hens, mated to magnificent cockerels (proved splendid breeders), imported direct from Spilly's famous egg farm in British Columbia. These cockerels guaranteed from dam 200 specially large eggs.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best 3,000 Laying Birds, Mammoth Incubator, etc.

For Particulars, Prices, etc., apply to The Earl of Eitham, Stoke Court, Stoke St. Mary, Taunton.

## COURT HEY POULTRY FARM.

Broad Green, Liverpool.

High Class WHITE WYANDOTTES and WHITE LEGHORN Cockerels for Sale. Ready for Immediate Mating.

Guaranteed from our best pens. Hens with records up to 278, SIREs from 254, 268, 282 DAMS.

PRICE: 30/- each from Pen, 40/- each from Individual Hens, with Pedigree Given.

LEGHORNS from Pen with Records 200 to 220 by 242 SIREs. PRICE: 25/- Each.

From 220 to 242 Dams by 276 SIRE: 30/- Each.

Also from Individual Hens: 35/- Each. Only Limited Number. Please Order Early. All Particulars from:—

J. BARGH, Manager.

Proprietors—**J. BIBBY & SONS, Ltd.**

# -a farthing a week for More Eggs!

Remarkable Natural Vegetable Product, supplies missing mineral salts, and maintains abundant health with doubled egg production. Costs only a farthing a week per hen. Use "SALUBRENE."

The valuable mineral and digestive elements of iron, calcium, potash, soda, etc., present in "SALUBRENE" supplies these vital constituents in digestible form.

## SALUBRENE

Use "SALUBRENE" for your poultry, and watch results. It is obtainable from your dealer in 6d. and 1s. 3d. packets, or we will send you a 7lb. bag for 6s. post free.

"SALUBRENE" is a simple organic product abounding in healthful and invigorating properties. It is NOT a spice, NOT a chemical preparation, DOES NOT FORCE. It adds essential mineral salts which promote health and increase laying capacity two-fold. "SALUBRENE" is now regularly used in the most successful Poultry Farms in the country.

Mention Name of Dealer when writing.

**JOHN BEHARRELL, LTD.**  
118, WINCHESTER HOUSE, HIGH STREET, NUL.

### NEWMAN & NORWOOD.

#### WHITE LEGHORN PULLETS FOR SALE.

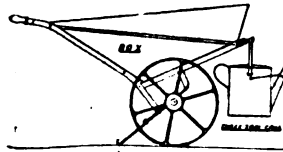
Well-Bred Birds from L2 Stock.  
May Hatched.

**12/6 Each.**

**Four Marks, Hants.**

### CARRY-ALL TROLLEY

For Poultry-Keepers, Gardeners, and others. With 15 or 12 galls. tank, interchangeable, with Box or Flat Top.



Particulars from—

**F. H. BOCQUET,**  
Burchetts, HAYWARDS HEATH.

### AUSTRAL ORPINGTON CLUB

General Meeting followed  
by Lecture on AUSTRAL  
LORPS, at Olympia, Dec.  
11th, 4.30. No. of Room  
Apply STAND No. 67.

**A MOST  
PROFITABLE INVESTMENT.  
IF IT IS ADVERTISED IN  
"EGGS"**

## ABSOLUTELY THE LAST WORD VITAMEALO POULTRY FOODS

Guaranteed to produce more Eggs and Young Chicks  
Cheaper than any other food on the market:—

- BECAUSE—
1. They contain the essential Vitamins
  2. They contain the essential Salts.
  3. They prevent diseases.
  4. The chick grows more rapidly.
  5. They are properly balanced rations.

**OUR FOODS CONTAIN NO SPICES.**

Visit our Stand, No. 66, at Olympia,  
and we will teach you all there is to know  
about scientific feeding and Vitamins.

Sole Manufacturers—

**The  
Agricultural Food Products Ltd.**  
29, BEDFORD ROW, LONDON, W.C.1.



as used on my:—

### Hampshire Poultry Farms,

- |   |                    |               |
|---|--------------------|---------------|
| No. 1.—Dry Mash Specially Pre-  | 28lbs. 1cwt. 1cwt. |               |
| pared for Chicks  | ...                | 5/- 9/6 18/-  |
| No. 2.—Dry Mash Specially Pre-  |                    |               |
| pared for Chicks at 10 weeks  | ...                | 4/9 9/- 17/-  |
| No. 3.—Laying Mash  | ...                | 4/6 8/- 15/-  |
| The above can be fed as Wet Mash if desired.  |                    |               |
| No. 4.—Chick Feed   | ...                | 6/- 11/6 22/- |
| No. 5.—Chick Feed at 10 weeks   | ...                | 8/9 11/- 21/- |
| No. 1 and 2 Mashies Contain Extracts of Milk which render them Invaluable for Growing Chicks. |                    |               |

**Free on-Rail.**

Quotations for Larger Amounts.

Telegrams:—Four Marks.

**P. V. NORWOOD, Four Marks, Hants.**

**E. LESLIE PATTISON,**

Weston Coyney Hall, Longton, Staffs.

**WHITE WYANDOTTES. RHODE ISLAND REDS.  
WHITE LEGHORNS.**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

**STOCK COCKERELS.**

Bred from selected Hens with 2, 3, 4 and 5 years complete records by sires bred from proved L2 birds.

*Full Pedigree with every bird*

- To-morrow's Economical Proposition.
- The Long Existence Hen—800 eggs in five years.
- My Birds can do it—they are being bred for it.

Pullets all ages from 12/6.

Recorded Breeding Hens.

**The DUNHOLME HUMID HOVER.**



(Patent applied for).

AWARDED Certificate of MERIT at the WORSLEY SHOW, Aug. 23rd, 1922.  
Don't Fail to write for Our New Illustrated Catalogue and Price List. Sent Free on Receipt of Post Card.

**SAMUEL N. ASHWORTH,**  
(P. Dept.), DUNHOLME TIN WORKS,  
3, HIGHER ARDWICK, MANCHESTER.

**Calor Clogs**

YOU WANT COSY FEET NOW.

THIS WARM LINED CLOG FOR 6/11

Post Paid.

ALL SIZES SAME PRICE.



IRONS ON SOLES and HEELS 1/- MORE.

You know "Calor" Clogs are good, and save your boots in the garden, and at all out-of-door or cold indoor work. Send for Catalogue of Boots and Clogs. Free for a P.C. New Low Price.

PATTERSON, D 87, Overgate, DUNDEE.

**TETNITE**  
(TRADE-MARK)  
**FISH MEAL**  
THE GREAT EGG PRODUCER.

"TETNITE FISH MEAL" is unrivalled for Egg Production and building up sturdy chickens; it is of superfine quality, and can be relied upon—always.

21/- per cwt. 13/- per ½-cwt. 7/- per ¼-cwt.

Supplies can be obtained with a special discount through the S.P.B.A. Carriage paid to any station in Great Britain. Cash with order. A Copy of Illustrated Feeding Pamphlet free with every order.

**TETNEY OIL & MEAL CO., LTD.,**  
101, Leadenhall Street, London, E.C.3.

**REDUCED PRICES**  
*of*

**UVECO**  
**POULTRY FOOD**

You can now buy from any dealer in England & Wales at these prices:—

7 lbs	1 <sup>1</sup> / <sub>5</sub>
14 lbs	2 <sup>1</sup> / <sub>8</sub>
56 lbs	9 <sup>1</sup> / <sub>6</sub>
112 lbs	18 <sup>1</sup> / <sub>2</sub>

Uveco Poultry Food is now the lowest price branded and guaranteed poultry food on the market. But it is something more. It is the best poultry food obtainable. To feed Uveco Poultry Food means economy and a more plentiful supply of eggs than by feeding any other way.

If supplies are not obtainable locally, we will send a first supply direct at the above prices—112 lbs., 56 lbs., carriage paid, provided that you state the name of your nearest dealer when ordering.

Sample post free from  
**UVECO CEREALS, Ltd.,**  
Cunard Building, LIVERPOOL.  
Bermondsey Wall, LONDON, S.E.16.



*The practical food  
at a sensible price*

# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices — 1 cwt. parcels, 22/-; ½-cwt. parcels, 13 6; ¼-cwt. parcels, 7/6

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MAKERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION)

**GUARANTEE** 50% ALBUMINOUS  
20% PHOSPHATES & LIME  
4% OIL (Maximum)  
3.5% SALT (Maximum)

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulas, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### THE "DALE - VITA"

### DUCK RECORDING HOUSE

The Result of Experience

Tested & Proved Perfect

Full Particulars:—

**DALE DUCK FARM,**  
DIBDEN, HANTS.

## ROUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*Gives Instructions relative to the Prevention and Cure of Diseases, in his Book,*  
**"HEALTHY POULTRY."**

*Supplied on Application FREE OF CHARGE by the Manufacturers of*

## FLUID **IZAL** POWDER DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

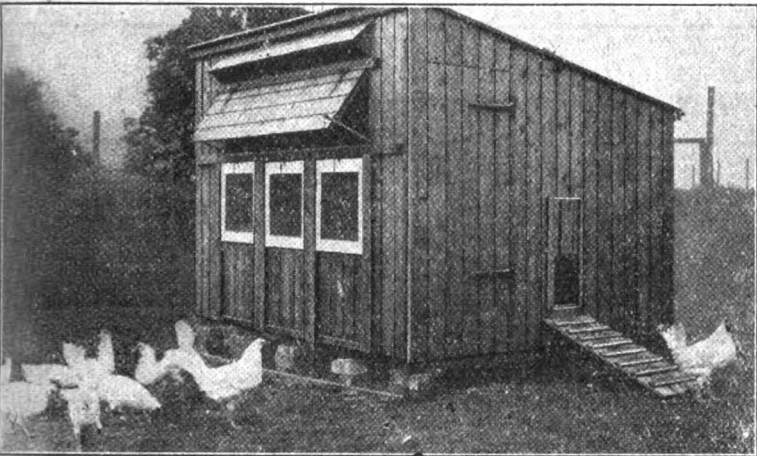
7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

# The WOODLANDS POULTRY FARM.



THE WOODLANDS POULTRY HOUSE.

BUY THE HOUSE THAT WILL LAST. See this Joinery Built House on Stand 114, OLYMPIA, December 9th-12th, or Write for Particulars.

## SECURE AT ONCE

One of the fine R.I.R. STOCK COCKERELS I am offering at **35/-**. Worth £4 to £5.

Splendid Colour and Fully Developed Birds.  
Mrs. Beales' Strain. Pedigree Given with Each Bird.  
Sent on Approval.

EGGS FOR HATCHING  
DAY-OLD CHICKS

Send for  
Mating List,  
1922/23.

AGENT FOR:-

**THE SUPERBATOR**  
The Super Incubator.

**THE CARLTON SIMPLEX, 35/-.**  
The Ever-Ready Poultry-Man's Barrow.

Write for Illustrated Booklet of the Farm, etc.

**SHIRLEY G. MORRIS,** M.S.P.B.A., M.N.U.P.S.  
**HOUGHTON-ON-THE-HILL,**  
Phone 14 BILLESDON. **LEICESTERSHIRE.**

# DIXON'S AUTOMATIC CLEANER

(Patent Applied For).

*The Greatest Labour-Saving Appliance ever introduced to the Poultry Industry.*  
**PAYS FOR ITSELF IN A FEW MONTHS.**

This invention enables poultry houses to be cleaned out in a most efficient and expeditious manner in a fraction of the time usually taken by hand labour, and will entirely supersede the old-fashioned drop-board.  
It consists of an endless band of special material, which takes the place of the drop-board, and which passes round two drums, one at each end of the shed, and over a system of rollers. By turning a handle fixed to one drum, the band revolves, and is met when passing over the drum, firstly, by a scraper, which removes the droppings into a box, or other receptacle, and, secondly, by a revolving brush, which removes any little refuse missed by the scraper. At the opposite end above the other drum is fixed a box filled with medicated sawdust, and as the scraped and brushed belt comes into position under the perches, it is sprinkled with medicated sawdust, leaving it in a far cleaner and sanitary condition than is possible under the old drop-board system. A scratching shed, 25 feet long, can be cleaned out in four seconds.  
This Appliance will be on view at Stand No. 22 at the N.U.P.S., Westminster, and Stand No. 155 at Olympia Show. Don't miss it.

Price and Full Particulars from INVENTORS AND SOLE MAKERS:

**T. & M. DIXON, Ltd., Redditch.**

**Mrs. E. UPJOHN, M.S.P.B.A. (1916),**

**The Stapleford Pedigree Poultry and Duck Farm, STAPLEFORD, CAMBS.**

Now Offers some very fine **White Wyandotte Pullets** and **Cockerels** from **£1 1s. 0d.** to **£2 2s.** each. The Pullets are in lay, and Eggs are First Grade.

**White Leghorne Pullets** and **Cockerels** from Barron's First Pen are unbeatable for type and egg production. **£1 1s.** to **£2 2s.** each.

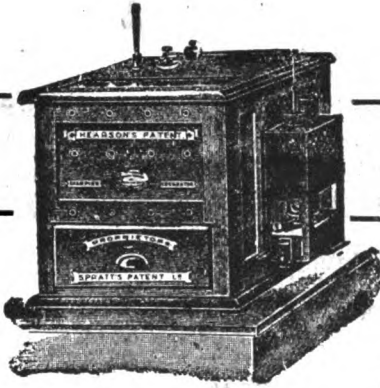
**INDIAN RUNNER DUCKS.** These birds are known the world over, and are noted for their **HEAVY WINTER EGG PRODUCTION.** Those who have once had them will have no others, and surely that should be enough.

**Breeding Pens from £3 3s. to £5 5s.** **Stock Drakes, £1 1s. to £3 3s.**

There will be a **Great Reduction** on **Sittings** and **Day-Olds** this Season.

**ANGONAS** and **BLACK LEGHORNS.** **Full List on Application.**





### As used by

Jimmy Fairservice, Tom Barron, Miss Harrison-Bell, Tom Wade, Arthur Stephenson, W. H. Cook, Ltd., Bostock Smith, Rev. Charles Birkett, R. H. Berney, M.A., Simon Hunter, J. E. Hughes, E. A. Taylor, Mrs. A. J. Pain, Mr. C. Brookes Wratten, Miss F. Smith, Arthur Snowden, and the other big men in poultry. "Take my tip, and get yours now," says Jimmy Fairservice.

### Ask for this Wonderful FREE BOOK

"The 100 Per Cent. Hatch" book printed throughout by the costly and beautiful photogravure process, contains 31 illustrations and a detailed description of how to hatch and rear sturdy, vigorous chicks; 10 exclusive photographs taken by Charles Hearson himself, showing the embryo actually in the egg shell in different stages, and brilliantly written matter. Write for your copy at once. Address your letter now to:—  
24, FENCHURCH STREET,  
LONDON, E.C.3.

**Spratts' Patent, Ltd.**  
24, FENCHURCH STREET,  
LONDON, E.C.3.

# Get your Incubators **NOW.**

To-day is the time to get your next season's Incubators—if you have decided that you must have Hearson's.

Poultry-keepers everywhere know that the factory was working overtime before Christmas last season, and that their orders were turned away.

The demand for the Hearson is enormous. This super machine lasts from twenty-five to thirty-five years; hatches every fertile egg every time; its oil consumption is only half that of other machines the chicks are stronger and more lively.

"Woodwork has been badly treated and is rotting," says a user who has had his machine thirty-two years; "but the egg chamber and the thermosatic capsule are as perfect as ever."

Later on we may not be able to accept your order at all. We cannot make enough machines. Whatever the wages we offer, skilled craftsmen who are good enough for the Hearson factory are not to be found.

Will you place your order to-day?

**REDUCED PRICES.** Your model reaches you complete with thermometers, lamp wick, funnels and every accessory, ready for you to start profitable incubation at once. The following prices are *carriage paid*: 60-egg size, £10 0s. 0d. 120-egg size, £15 15s. 240-egg size, £22 0s. 0d.; 600-egg size (on application). The number of Hearson Type Incubators at present in use is more than the total of all other kinds combined. "I have decided to scrap my 1,500-egg machines, and replace them with eight 100-egg Hearson's," writes the Reverend Charles Birkett. "I shall save 700 eggs at a time: and be sure of the hatches succeeding." Write for your free copy of the Hearson Book to-day.

**Hearson's**  
Incubator



# "RADIANT" BLUE FLAME BROODER STOVES.

## GIVES RESULTS.

Before deciding on your brooding arrangements, consider the **Radiant** system. It means economy in every direction, and which is much more important, good rearing results.

The capacity of the **Radiant** stove is well above its job. 9 square feet of heated area in the 150-chick size, and 13 square feet in the 300-chick size, and not stale air, but pure radiant heat from a metal surface, and abundant fresh air. **This combination is just the difference between good and poor rearing.**

Every **Radiant** Stove will take its complement of chicks and then 25 per cent. more.

**MODEL AD 2,  
150-CHICK SIZE,  
£4 2 6**

**STAND  
140 and 141,  
OLYMPIA.**

**MODEL AD 3,  
300 CHICK-SIZE,  
£5 15 0**

**THORPE, RODERICK MFG., Co.,  
32, Broadway, Bedford.**

**LT. COL. A. G. THOMAS,  
edigree Poultry Farm,  
BURGESS HILL, SUSSEX**

ers Day-Old Chicks and Sittings, from  
very choice selected trap-nested stock.  
Orders now being booked.

**GOOD AS THE BEST—BETTER THAN  
THE BEST**

is the opinion of hundreds of satisfied  
Customers.

1 Birds have more than passed S.P.B.A.  
Winter Test.

oundation Stock of Males from the follow-  
g: Miss E. D. Kitchen, E. C. B. Boucher,  
ephen Hicks, W. Cook and Son, Ellett,  
rd Dewar, G. B. Metcalfe, Rev. Birkett,  
P. Johnson (late President of "Eggs").

**BREEDS KEPT.**—S.c. R.I. Reds (Cockerels  
and British Rhode Island Red Club  
ver Spoon, Hastings); ...Pullets (1st,  
elmsford); White Wyandottes, Black  
d White Leghorns, Light Sussex;  
rnevelders (imported by aeroplane  
rect from Holland, Van Heck-  
ddleman). There is going to be a boom  
the last-named breed, and I must say I  
ve taken a great fancy to them. Layers  
many dark brown eggs. Very pretty  
Birds. Price Lists Free.

Sittings from 10/6 to 21/- per doz.  
Chicks Double.

SM APPROVED for Training of Pupils  
by Ministry of Agriculture.

scancy One Gentleman Pupil, Jan. 25th.

**MANY TESTIMONIALS.**

**Reporter, Member Poultry Club,  
B.R.I.R.C., S.P.B.A.**

## GOVERNMENT SURPLUS.



1 to 12 2/6 each.  
13 up 2/4 each.



1 to 5 4/6 each.  
6 to 13 4/3 each.  
19 up 4/- each.

**H. GORDON (U),  
166, Linden Road, Gloucester.**

**Wilson's Poultry and Duck Meal.**

**PRICE REDUCED.**

**£16 ton. 17s. cwt., f.a.r. Bags free. Cash with order  
Carriage Paid. Price and Sample Post  
Free.**

**JOHN C. BANNISTER & CO., Ltd.,  
Easingwold, YORK.**

**Superbly- conditioned Non-Forced  
Stock Produced**

**The FUL-O-PEP Way.**

**FUL-O-PEP  
POULTRY FEEDS**

## CRAWFORD & DOWELL

M.S.P.B.A., N.U.P.S.,

**CRAWDWELL POULTRY FARM,  
HUNGARTON, LEICESTER.**

Breeders of

**HIGH CLASS WHITE LEGHORNS and  
RHODE ISLAND REDS  
(Crowley-Boucher).**

**Our Pen of White Leghorns won  
FOURTEENTH POSITION**

in the

**"DAILY MAIL" £1,000 TEST.**

**Against 100 Pens, all Breeds, competing,  
and finished SEVENTH out of  
100 PENS of LEGHORNS.**

**(One Bird Died in the Tenth Month of the  
Test).**

**PEN AVERAGE: 214 FIRST GRADE EGGS.**

**Our White Leghorns have been bred for  
Thirty Years for LARGE EGGS.**

**HIGH PRODUCTION AND STAMINA.**

**We are now Booking Orders for Eggs for  
Hatching.**

**A Few First Class Cockerels (W.L. and  
R.I.R.) still left for disposal.**

There is nothing accidental about the fact that **FUL-O-PEP** Dry Mash will produce more and better Eggs at a lower nett cost.

*These are the reasons:*

- (1) **FUL-O-PEP DRY MASH** combines in ideal form the essential vegetables, animal and mineral salts elements which constitute the "raw materials" for the production of eggs.
- (2) It is so readily and so easily assimilated that the birds can and do eat prodigious quantities of it, even during the short winter days.
- (3) It is so palatable that it does not need the addition of anything in the way of spices or condiments to make the birds devour it eagerly.
- (4) It has a food value, bulk for bulk, far in excess of any other mash on the market.
- (5) It builds stamina to an amazing extent, and it engenders in the bird a tremendous surplus energy, which finds a natural outlet in the form of large, fine-flavoured eggs.
- (6) It is compounded to a precise formula under the strictest supervision. It is manufactured by a scientific process which results in a never-varying high standard of purity and excellence.

*If you cannot obtain **FUL-O-PEP** POULTRY FEEDS from your Corn Merchant, please get into touch with us direct.*



TRADE MARK.

**FUL-O-PEP**  
POULTRY FEEDS

Made and Guaranteed by

**QUAKER OATS, Ltd., 12, Finsbury Sq., E.C.2.**

## Offers Wanted

10 Tons Greaves Meat Meal  
(80.5 per cent. Alb. and Fat).

10 Tons Bone Meat Meal  
(50.16 per cent. Alb. and Fat, 41.38 Mineral Matter).

**DUNLOP,**  
57, Dalblair Road, Ayr, N.B.

## MY PEN WON

BLUE LEGHORN CLUB'S

Laying Trials Trophy

and BRONZE MEDAL at the

**HARPER ADAMS' COMPETITION**

1920/21, and in the 1921/22

THE TRIALS My Pen WON

**SILVER MEDAL**

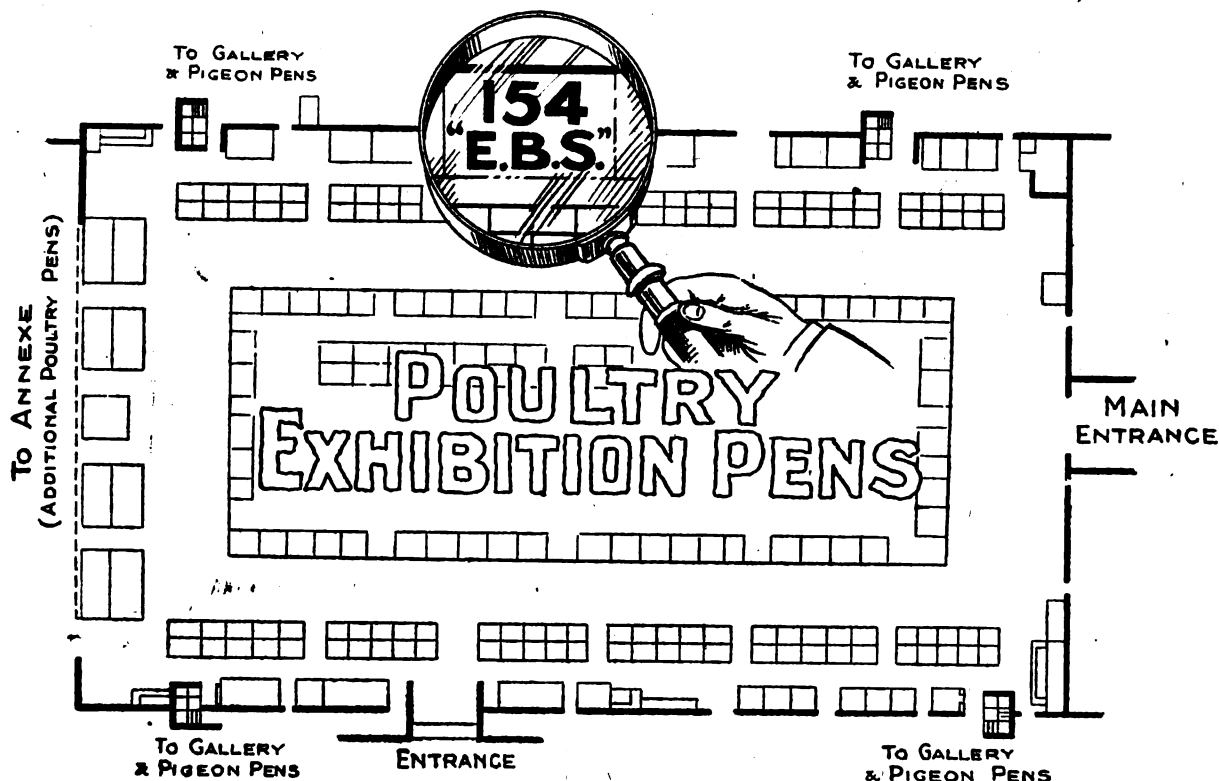
Upwards of 200 Prizes won at all leading shows.

Hens, Pullets and Cockerels for Sale at Reasonable Prices.

*All enquiries receive personal attention.*

**G. N. ALEXANDER, F.B.S.A.,**  
- **KNARESBOROUGH, YORKS.**

## GRAND INTERNATIONAL POULTRY EXHIBITION, 1922.



**It would be worth while coming even if you only saw my stand**

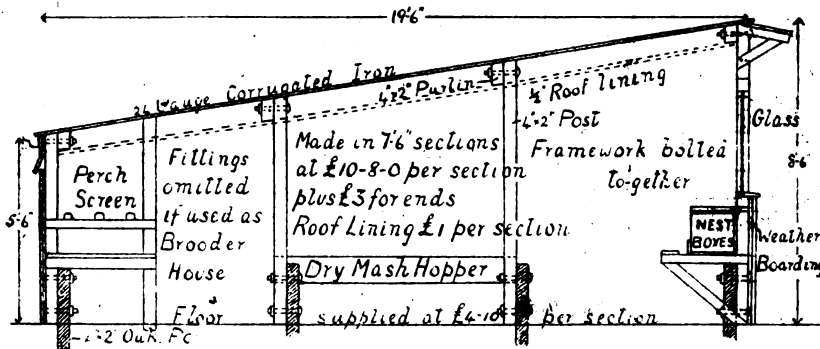
**N**o keen Poultry-Keeper can afford to miss the Grand International Poultry Exhibition which will be held at Olympia from December 9th to 12th. I consider it of such importance that, busy as I am, I have devoted a very great deal of time and thought to ensure that my stand will be worthy of "International" inspection and criticism.

I have maintained that birds bred for "utility" purposes *can*, at the same time, be bred true to type. I have claimed that in addition to showing wonderful records as layers *my* birds really *are* true to type. I have invited all interested to visit "Heaselands" to see for themselves; but it has not been convenient for everyone to do that. Now, these birds will be seen by thousands of expert poultry judges and those who have read my statements will see if I have exaggerated or over-stated my case in the smallest degree. If you doubt the possibilities of combining "utility" with "type," visit Stand 154 and be convinced.

**E. Bostock Smith**  
Pedigree Utility Poultry

"Heaselands," Hayward's Heath, Sussex, England.

## COMPARE OUR PRICES. THE SMALL CAPITAL HOUSE.



Durable, well-lighted, well-ventilated, with iron or felt roof, can be used as a brooder, colony or laying house, in sizes from 15-ft. long upwards at proportionate cost. Nest boxes, dropping boards or pits, dry mash hoppers, everything complete. Write for full particulars to—

**THE BERKSHIRE TIMBER CO., Ltd.,**  
WOKINGHAM, BERKS.

### Hodkinson, M.S.P.B.A., HOLYWELL, HUNTINGDONSHIRE,

Is now Booking Orders for delivery January to April, at 10/6 per dozen, from Specially Selected Pens of R.I.R., White Wyandotte, White and Black Leghorns.

Every hen a daughter of competition winners, and each pen is mated to Special Cockerels from Boucher's, Wilson Beattie's, Padman's, direct imported and "Daily Mail" Champion Pens.

Further Particulars on Application.

Eggs from Flocks same Strains,  
**6/- per doz., 45/- per 100.**

All Breeding Pens, L2 Birds.

**The "MARKHAM" Trap-nest Front**

The simplest on market. Never failing action  
Singles, 3/6. Sets of 3, 10/- Carr. Paid.  
W. & T. MARKHAM, S.P.B.A.,  
Dept. "A." QUENIBOROUGH, LEICS.

### Captain NEIL WEIR, P.C., S.P.B.A., N.U.P.S., Westridge Egg Farm, Wotton-under-Edge.

#### WHITE ORPINGTONS ONLY.

Write for Price List and Particulars of Stock.

### JOHN GODFREY & Co, Ltd., STAMFORD, For Up-to-Date

#### HOUSES and APPLIANCES. TRY US.

Known throughout the County as makers of the best quality only.

PRICES REASONABLE.

Satisfaction Assured. Catalogues Free.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches.  
1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/.

Trap-Nesting Record Books, 6/.

Hatching Record Books, 7/6 and 11/.

Stud Books for Fowls, 6/.

Incubator Records, 1/3 doz.; 7/- per 100.

Backyarder's Complete Record, 2d.

Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKER, LEICESTER.



### The S.P.B.A. BADGE.

Gold Letters on Blue Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.

## THESE ARE STRAINS OF QUALITY

Buff Rocks, Rhode Island Reds, White Wyandottes, White Leghorns, Aylesbury and Runner Ducks.

**CAPT. R. C. BEATTIE**  
Riverside P.F. Totnes, S. DEVON.

TRAP-NESTED PEDIGREE STOCK.

**EGGS** LIST FREE. **CHICKS**

1922 PEDIGREE LAYING PULLETS.  
On One Month's Approval.

**RHODE I. REDS**  
(Boucher's) March and April hatched. Dam's records 240-271. Sire's Dam 291.

**WHITE WYANDOTTES** (Barron's). 189-257. Sire son of Wilson Beattie's Snowball.



**WHITE LEGHORNS.** Dams 250 upwards. Sire's dam, Gilpin's 293-egg hen.

15/-, 21/- and 25/- each. Satisfaction Guaranteed.

Dept. C, **GRAY POULTRY FARM, Ltd.,**  
Sidcup, Kent.

## EGGS. CHICKS. H. LYNDEN LEMON, M.P.C., N.U.P.S., S.P.B.A., Lodge Poultry Farm, Devises.

Now Booking Orders in advance for 1923.

**W. LEGHORNS, LIGHT SUSSEX, W. WYANDOTTES.**  
BLACK and WHITE LA BRESSE.

Awards at UTILITY SHOWS in 1922.  
TOTTENHAM, N.U.P.S.  
YEOVIL.

Including TROWBRIDGE, BRISTOL, N.U.P.S.  
NORTHUMBERLAND HEATH.  
Challenge Cup, 17 Firsts and Specials.

**PULLETS FOR SALE.**

**STOCK COCKERELS.**

We are now offering some extremely choice birds, bred from high record hens, and Tested L2 Sires. Reared Free Range.

**White Wyandottes.** Barron's strain. Dam's record 245 24oz. eggs. Sire's dam 252 24oz. eggs, non-broody.

**R.I. Reds.** Crowley-Boucher strain. Dam's record 242 24oz. eggs; sire son of Boucher's Record Hen.

**W. Leghorns.** Cam's strain. Dam's record 255 24oz. eggs. Sire's dam 265 24oz. eggs. Price: One Guinea Each.

**Khaki-Campbell Drakes.** Best bred from Sisters to our Bentley Pen. Price 15/- each.

A few choice Pullets in Reds and Dottes from Tested L2 Hens. Just commencing laying. £1 Each.

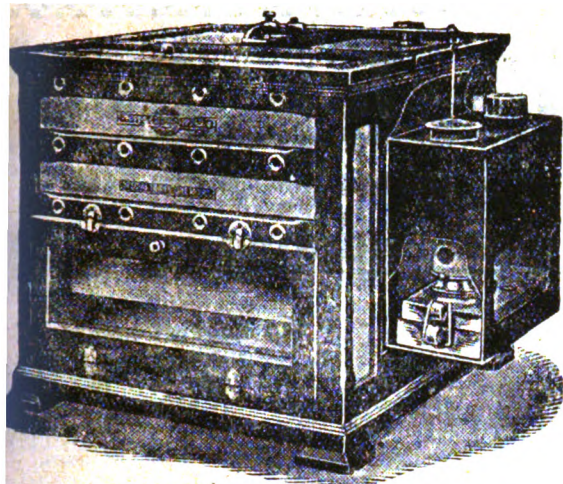
All Carriage Paid. Fulltest Approval.

What others say: "The two cockerels I got from you last December turned out the best I have had for several years, and maintained full vigour and fitness right through the season, and have bred about 300 fine pullets."—Hugh Sowerby, 14/6/22.

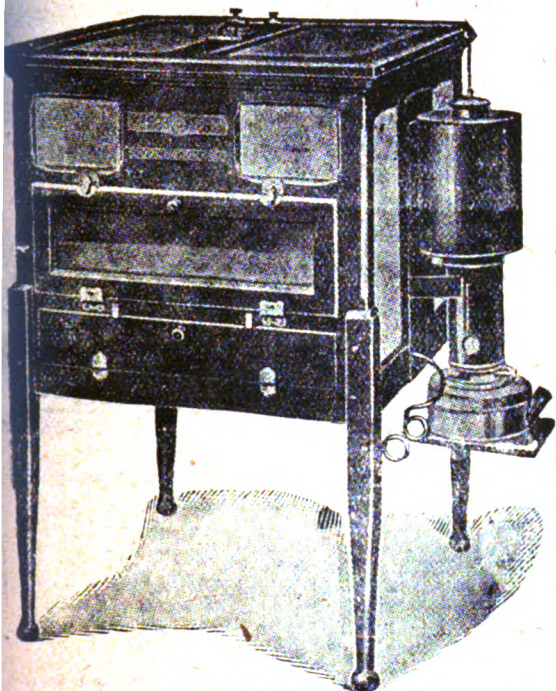
**G. R. PINDER, M.S.P.B.A., N.U.P.S.,**  
Lindsey Poultry Farm, CARLTON, LOUTH.



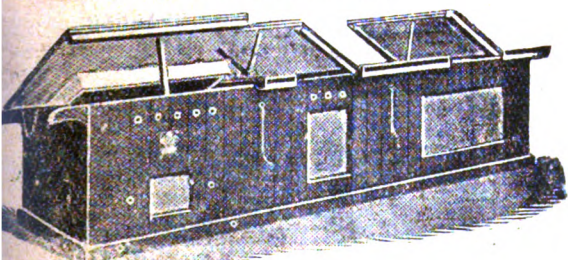
# The Mark of Efficiency.



Phipps' "PERFECTION" Incubator.  
Ironstone Hot-Water Model.



Phipps' "PREMIER" Incubator.  
Ironstone Hot-Air Model.



Phipps' "PERFECTION" Foster Mother.

PHIPPS' Incubators stand for efficiency, first, last, and all the time, and reliability of these famous machines for consistent hatching is so well known as to have become proverbial. Their conception embodies the utmost simplicity in design, the greatest care in construction, and the finest quality material it is possible to secure.

Phipps' "PERFECTION" Incubator is without doubt the world's best hot-water hatcher. It has secured 95 Highest Awards at all the leading shows and for upward of twenty-five years has been the leading hot-water machine on the market. Every feature in the "PERFECTION" Incubator is one of outstanding merit and a distinct advance in artificial hatching development.

The secret of hatching success of the marvellous Phipps' "PREMIER" Incubator is built right into it—the dual heating device making it the only uniformly-heated, hot-air machine on the market. The ventilator is perfect, and the regulation and ventilation are absolutely correct, so that the "PREMIER" will keep its heat almost as long as the hot-water model and the cost of operation is half that of any other machine on the market.

The "UNIVERSAL" Egg-Turning Device is the only egg-turner on the market that turns every egg every time, keeps the eggs from touching one another and in the correct hatching position always. The "UNIVERSAL" fits any make of machine and is essential to all who require best hatching results.

After hatching the chicks your whole success depends on the rearing. If you put them into a Phipps' "PERFECTION" Foster Mother you are sure to raise every raisable chick to early maturity and profit—the secret of the "PERFECTION" Brooder lies in the fact that it is the only brooder on the market built close to nature, with the result that its only rival is Mother Hen. If you want to save money and disappointment, get a copy of Phipps' Art. Catalogue before purchasing Incubators or Brooders of any kind.

## PRICES.

Phipps' "PERFECTION" Incubator.		Phipps' "PREMIER" Incubator.	
30 egg size	£6 15 0	70 egg size	£6 15 0
60	8 10 0	110	7 15 0
100	10 0 0	160	8 10 0
200	15 0 0	260	11 10 0
		400	15 0 0

### Phipps' "PERFECTION" Foster Mother.

60 chick size	£6 6 0
100 chick size	£7 7 0
150 chick size	£8 10 0

### Phipps' "UNIVERSAL" Egg Turning Device to fit Incubators of

30 egg capacity	12s. 6d.	70 egg capacity	18s. 0d.
60	17s. 6d.	110	22s. 0d.
100	20s. 0d.	160	25s. 0d.
200	40s. 0d.	200	42s. 0d.
		400	48s. 0d.

PHIPPS' Incubators and Brooders can be bought on easy terms from J. G. Graves, Ltd., Sheffield, or the Service Co., 292, High Holborn, London, W.C. If purchasing on these terms, please write either firm direct.

**A. E. W. PHIPPS, Midland Works, No. 4, HARBORNE, Birmingham.**

# **The World's Champion Red**

**No. 153 laid 298 Eggs and Non-Broody in "Daily Mail" International Laying Test.  
World's Highest Official Record.**

Pen 20 in the "Daily Mail" International Egg Laying Test, my Rhode Island Reds at end of 12th month of Test finished First for the RHODE ISLAND REDS, and Eighth out of 190 pens competing of all varieties. The eight birds laid 1,782 eggs. Pullet No. 153 laid 298 eggs all first grade but five, and was never broody. This is the world's highest Official Record for a Rhode Island Red.

This makes my Third Win with my Reds three years in succession.

In 1920 (with the first pen I ever entered), Pen 198 finished first for Reds in National Laying Test, beating all sitting varieties.

1921 Pen 69 was first for Reds in the Northern Laying Test.

1922. Pen 20, first for Reds in "Daily Mail" Test.

I have 1921 Hens to Sell from 12s. 6d. each. 1922 Pullets from 21s. 6d.

Fine Stock Cockerels, 30s. to £10 10s. 0d. Limited Number only. Orders by every post.

**STAMP FOR PARTICULARS.**

**Miss D. E. KITCHEN, Vicarage Poultry Farm,  
Hardingstone, Northampton.**

**Instal "BLANCHARD" LAMPS. More Light = More Eggs.**  
**THE IDEAL LIGHT FOR HEN HOUSES.**

**BRIGHTEST  
LIGHT  
MADE.**

\*\*

**PERFECTLY  
SAFE.**

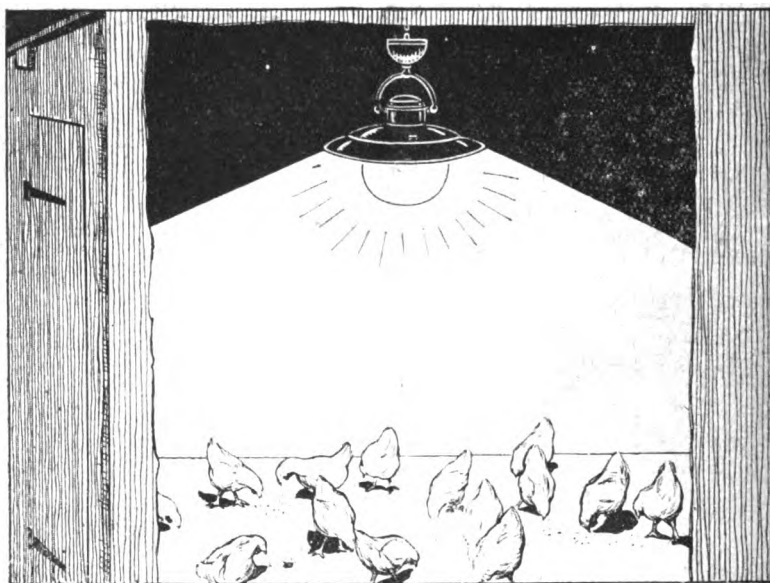
\*\*

**COSTS  
ONE FARTHING  
PER HOUR  
TO BURN.**

\*\*

**NO  
SHADOWS.**

\*\*



**LIGHTS THE WHOLE FLOOR.**

**BURNS  
ORDINARY  
PARAFFIN.**

\*\*

**AUTOMATICALLY  
EXTINGUISHES  
ITSELF AT  
PRE-ARRANGED  
TIME.**

\*\*

**"SUMMER-TIME"  
ALL THROUGH  
THE  
WINTER.**

\*\*

Write for Particulars and Illustrations to the Manufacturers—

**BLANCHARD LAMPS (BRITISH) LIMITED,**  
151, FARRINGDON ROAD, LONDON, E.C.1. Telephone: CITY 2973.



Early-hatched s.o. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Beucher's World Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibition and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bentley Laying Test Blood, and a few Special Fawn and White Drakes from Dams which have recorded up to 360 Eggs in the year. Also a few special Mated Pens.

**A. HAROLD PAINE,** Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
THE CHALET, BURGESS HILL, SUSSEX.

## Leckhampton Poultry Grit.

THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	8.08	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	8.99			
Calcium Phosphate	...	.56			100.00

### PRICES:

F.O.B. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; 23 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 8s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## YOU ——— "MUSTAPHAN" EGG GRADER.



NO WEIGHTS.

PRICE

POST **2/6** FREE  
CASH WITH ORDER.

ACCURATE—SELF-SETTING.

E. VIOLA, 75, Victoria Street, London, S.W.1.

## DR. J. H. BALDWIN,

SPRINGFIELD P.F. WIMBORNE, DORSET.

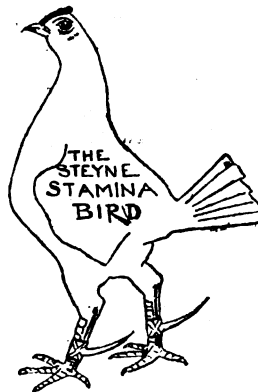
ONLY THE VERY FINEST STOCK in

White Leghorns,

White Wyandottes,

R. I. Reds (s.o.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.



## I am a Eugenist!

The Scion of a Noble Race  
Outclassing my Fellows  
Not by Breeding alone  
But by Thews and Sinews  
Yim and Virility.  
A Product of Steyne Foods  
The Science-sense of Feeding.

Lists and Booklet Post Free.

**The STEYNE FOODS Co.,**  
Steyning, Sussex.

## "Poultry Foods and Feeding,"

ALSO

Chicken Rearing."

BY

**TOM NEWMAN**

Rudgwick, Sussex.

Price **6½d.** Each,  
Post Free.

## COUNTY COUNCIL OF DURHAM.

EDUCATION DEPARTMENT.

POULTRYMAN - CARPENTER (Married)  
Required for Houghall Poultry Station.  
Must be able to take charge of plant and  
stock, keep records, and undertake simple  
carpentry and repairs.

Wages £2 10s. 0d. per week, together with  
free cottage, but not rates.

For list of duties and form of application  
apply, enclosing stamped addressed fool-  
scap envelope, to the Director of Education,  
Shire Hall, Durham.

Applications must be delivered not later  
than the 11th December, 1922.

A. J. DAWSON,

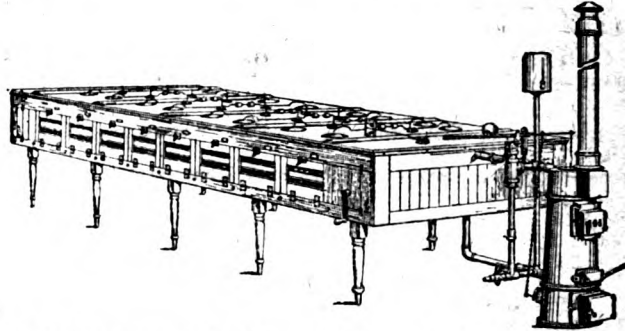
Director of Education.

Shire Hall, Durham.  
27th November, 1922.

# STANWORTH EQUIPMENTS.

## WE LEAD——OTHERS FOLLOW.

The  
"Stanworth"  
Mammoth  
Incubator.



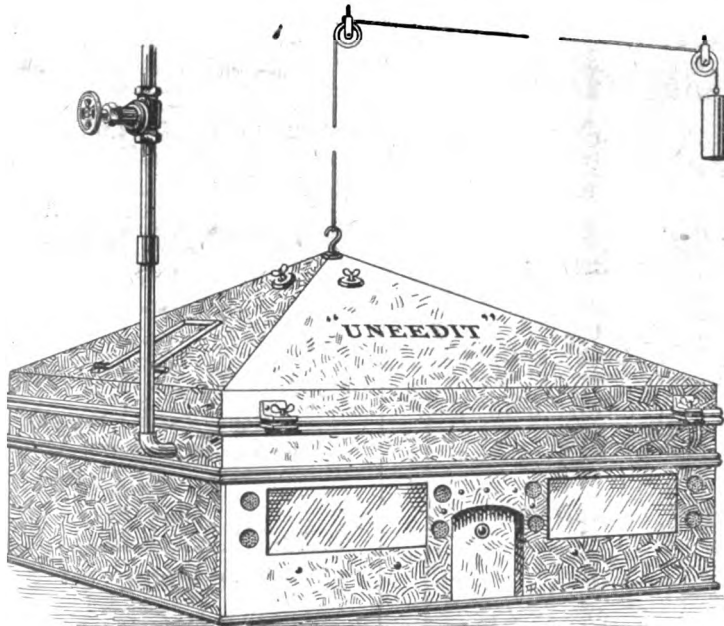
Egg Capacity:  
**1,200 to 12,000**  
British Throughout.

A "Mammoth" with a Reputation.

Have you considered installing a "Mammoth" Machine?  
If not, why not? Compare costs of hatching 150 Eggs:—

Ours - 9d.  
Others - 8s. to 10s.

*This Machine is too well known to require enlarging upon.*



The Very Latest in  
Hot Water Brooders  
**"UNEEDIT"**

Because

**YOU  
Have**

Complete Control of the Chicks.  
Complete Control of all conditions  
prevailing under the hover.  
An even temperature guaranteed  
throughout, and therefore there  
is no danger of crowding.

Supplied in capacities of from 150 to  
400 Chicks.

Write for Prices and Particulars.

**POULTRY APPLIANCES, Ltd.,**  
**Burnley, Lancashire.**

Sole Patentees  
and Makers,

'Grams : "APPLIANCES," BURNLEY.

'Phone : BURNLEY 19.

# TOOK TOOK

"THERE'S EGGS IN IT"

REGD

per cwt.	s. d.	per cwt.	s. d.
"TOOKTOOK" DRY MASH	16 6	"TOOKTOOK" MIXED GRAIN	16 6
"TOOKTOOK" LAYING MEAL	15 6	"TOOKTOOK" FATTENING MEAL	18 6

ALSO

**PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.**

per cwt.	s. d.	per cwt.	s. d.
CRUSHED MAIZE	12 6	SPECIAL POULTRY OATS	13 6
SMALL MAIZE	14 0	BEST FEEDING WHEAT	13 0
MAIZE CHIPS	14 0	SUSSEX GROUND OATS	20 0
MAIZE MEAL	12 0	WHITE FISH MEAL (60 per cent. Alb. min.)	18 0
GLUTEN FEED	11 0	FINEST MEAT MEAL	22 6

All Free on Rail, Greenock.

Terms—Nett Cash with Order.

Complete Price List FREE.

Special prices delivered, or free on rail, London, Southampton, Plymouth, Liverpool, and all Irish Ports on application.

**MACFARLAN, SHEARER & CO.,**

POULTRY FEEDING SPECIALISTS, (Department 36),  
**GREENOCK, SCOTLAND.**

**T. H. REDFORD, M.S.P.B.A.,**

*The Beeches Poultry Farm, MOBBERLEY (Cheshire).*

**WHITE WYANDOTTES. WHITE LEGHORNS.**

**R. I. R. (Sc.)**

**COCKERELS**, February Hatched, bred from L2 Hens, Sire's Dams, L2 Hens, with a yearly record of 245-255 Eggs.

All the above Hens had also a year's record of 230 Eggs. Pedigrees and any particulars on application.

Price 21/- each.

**LEGHORN PULLETS**, also 60 Late May Hatched, at 10/6 each.

## NEW TIMBER—What about it?

We pay Carriage on all orders over £1. GREAT REDUCTIONS.

Compare our Prices with others—but you cannot compare the Quality.

1in. x 4in. T.G.V. at 7/6	1in. x 5in. Sawn Brd at 11/6	3in. x 3in. Battens at 17/6
1in. x 5in. T.G.B. at 9/6	3in. x 2in. Battens at 2/6	3in. x 4in. Battens at 25/-
1in. x 5in. T.G.B. at 11/-	1in. x 2in. Battens at 4/-	3in. x 6in. Battens at 40/-
1in. x 5in. T.G.V. at 8/9	2in. x 1 1/2in. Battens at 6/-	2in. x 4in. Battens at 15/6
1in. x 5in. T.&G. Fl'n'g 13/-	2in. x 2in. Battens at 8/-	3in. x 5in. Weather-Board 7/-
1in. x 5in. Sawn Brd. at 6/6	3in. x 1in. Battens at 6/-	
1in. x 5in. Sawn Brd. at 8/9	3in. x 3in. Battens at 12/-	

Per 100 running feet. Cut to Lengths or Multiples. Other sizes quoted for. Special Terms for Large Quantities. When ordering, please state name of nearest Goods Station.

WE CAN GIVE IMMEDIATE DELIVERY.

We also supply Roofing Felt. Send your enquiries.

**RUSH & PARK** (Dept. F) Clarendon Road Saw Mills, BEAFORTH-LIVERPOOL Tel. 624 Waterloo.

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

### OSSIFIED YEAST.

Analysis.	per cent.
Moisture	6.86
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
Ash	21.04
	100.00

	per cent.
* Containing Nitrogen	6.36
" Phosphate of Lime	18.88
" Sand and Silicious matter	0.23
Total Food Units	150

### PRICES:—

Dried Yeast, 21/- per cwt.  
Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

BY BOOKING  
YOU INSURE **EARLY** SITTINGS  
AND BIRDS  
WHO LAY EGGS.

FROM THE BEST STRAINS.

We are now Booking Orders for Sittings. Day-old Chicks and Ducklings for the coming season in the following Breeds:—Barnvelders, Light Sussex, Wyandottes, Rhode Island Reds, Anconas, Black and White Leghorns, Silver Campines, White Runners, Khaki-Campbell, etc.

Price List Free.

**The NORTH DEVON POULTRY FARM**  
Metherell Tower,  
BEAWORTHY, N. DEVON.

**MOORSWOOD**  
POULTRY FARM,

**HERONS GHYLL, UCKFIELD, SUSSEX**  
Proprietors: Mrs. James Hope & Miss A. Heward  
Manager: Mr. E. Lott.

Breeders of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

**RHODE ISLAND RED COCKERELS** from £1 1s.  
Booking Now, Orders for Sittings and Day-Old Chicks



# W. A. BAINBRIDGE,

## Keyneston Manor Poultry Farm,

### BLANDFORD.

#### White Wyandottes. Rhode Island Reds (S.c.)

#### Light Sussex.

Sittings of first-grade eggs from L2 birds, mated to Cockerels from large egg and high record Hens.

Only the **VERY BEST** supplied.

**THREE-MONTHS PULLETS.** Day-old Chicks. Cockerels from large egg, high record L2 Hens.

#### GEO. THISTLEWAITE,

CORN MILLER,

116, Wavertree Rd., Liverpool.

Prompt Dispatch. No Waiting.

Best English Wheat	12s. 6d.
Best English Oats	12s. 6d.
Best Mixed Corn	12s. 6d.
Round Plate Corn	11s. 6d.
Sound White Dair	10s. 6d.
No. 2 Fowl Corn	11s. 6d.
White Middlings	12s. 6d.
Kibbled Maize	10s. 6d.
Best Bran	8s. 6d.
Laying Meal	12s. 6d.
Fish Meal	17s. 6d.
Meat Meal	17s. 6d.
Sweet Clover Meal	10s. 6d.
Green Bone	15s. 6d.
Uveco	18s. 6d.
Lasco	21s. 6d.
Flint Grit	5s. 6d.
Alfalfa	18s. 6d.

6d. cwt. less 5 cwt. lots.

#### Consistent Winners.

For four years in succession our birds have been in the honours list at the various Laying Competitions, which proves beyond doubt the wonderful stamina and high-laying quality of our flock.

THIS YEAR'S SUCCESSES:

1st, Burnley Championship (White Leg-horns).

2nd, Harper-Adams' Illuminated Section (White Leg-horns).

2nd, National (White Wyandottes).

2nd, Midland (White Wyandottes).

7th, Harper-Adams (White Wyandottes). We still have a few exceptionally good Cockerels, in both breeds, at 21/- each upwards, and a limited number of Wyandotte Pullets at 30/- each upwards.

Hatching Eggs and Day-Old Chicks now being booked.

Further particulars on application.

S. AND J. PARSONS,

THE POULTRY FARM, MUSBURY, DEVON.

#### LIGHT SUSSEX PULLETS

100 Hatched March-April 1922, from hens with records over 200 Eggs, sired by Cockerels from 242-Egg Hen.

FINE, HEALTHY, BIRDS OF GOOD TYPE. MANY LAYING.

PRICE 12/6 - - 20/-

According to age.

CARRIAGE PAID.

F. B. BROXUP, S.P.B.A.  
LYDDEN, MARGATE.

#### NOTE THESE PRICES!

Then compare **QUALITY** and **NUTRITIVE VALUE** in relation to the food you now use.

#### POULTRY FOODS

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	12/6

#### MEALS

Maize Meal (Fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	18/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dair, Barley, Oat Feed, Barley Meal, Biscuit Meal (Poultry), Service Meal (fine), Cockle Shell, Flint Grit, Mixed Grit, Pure Oyster Shell, in K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMICAL QUALITY FOODS** to-day. Order through Secretary, S.P.B.A., and get your discount.

The **Service Food Co.**  
VICTORIA MILLS  
GRIMSBY

#### RECORD LOW PRICE.

72in. x 3in. 18/-	72in. x 2in. 25/-
60in. x 3in. 15/-	60in. x 2in. 21/-
48in. x 3in. 12/-	48in. x 2in. 16/6
36in. x 3in. 9/-	36in. x 2in. 12/6
24in. x 3in. 6/6	24in. x 2in. 9/3

#### Roofing Felt. Special Prices.

No. 0 Sanded, 45ft. x 3ft.	5/- roll
No. 3 Pure Bitumen, 36ft. x 3ft.	6/3 roll
No. 5 Pure Bitumen, 45ft. x 3ft.	7/9 roll

#### OFFER OF NEW GALVANISED WIRE NETTING.

IN ROLLS OF 50 YARDS.

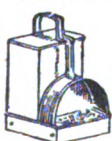
72in. x 1 1/2in. 32/9	72in. x 1in. 43/-
60in. x 1 1/2in. 27/-	48in. x 1in. 28/6
48in. x 1 1/2in. 22/-	36in. x 1in. 21/6
36in. x 1 1/2in. 16/5	24in. x 1in. 15/-

10 rolls and over carr. paid England and Wales, otherwise F.O.R.

Solid English Oak Stakes, 2 x 1 1/2in.

5ft. 10/-, 6ft. 13/-, 7ft. 14/-, 7 1/2ft. 15/- doz. F.O.R.
--

#### POULTRY APPLIANCES OF QUALITY AND STRENGTH. ALL BEST GALVANISED.



Special Auto Wall Fount. Each 2/6, 1 gall. 3/6, 2 gall. 4/9



Special Grit Box. Non-waste Bars, 14lbs. capacity. 12 1/2 x 7 x 5 1/2 in., 3/6

Food Saving Trough Hinged waste-preventing bars for easy cleaning. For Corn Mash and Grit



Dry Mash Hopper.

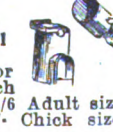


18in. long, 5in. wide, 3/3 each. 24in. long, 5in. wide, 4/6 each. Chick sizes: 11in. long, 2 1/2in. wide, 1/6 each.

Strong and neat, two lids, hinged non-waste bars. 2gal., 5/6; 4gal., 9/6; 3gal., 6/9; 6gal., 12/-

Six or more appliances Carriage Paid. Single articles 9d. extra, part carriage.

Superior Auto Wall Fount. Will hang or Stand. Each 1 gallon 5/6 Adult size, 2 gallon, 7/- Chick size.



Conical Auto Founts. Made in 2 parts for cleaning. 1 gall. 4/3, 2 pint 2/-



**Smith & Ellis**

You can rely absolutely on the quality we offer, so please do not judge by the low prices.

(Dept. 51), 11, Little Britain, LONDON, E.C.1.



**STAND**



Regd. Trade Mark

**143**

**OLYMPIA.**

Our Stand is a large one situated half-way up the left-hand side of Olympia, near the lift. We are exhibiting a full range of our productions.

- 1 No. 6 Illuminated Fireless Brooder.
- 1 No. 3 Planok Fireless Brooder and Scratching Shed.
- 1 No. 2 Planok Fireless Brooder and Scratching Shed.
- 1 No. 1 Planok Fireless Brooder and Scratching Shed.

**PLANOK TRAP-NEST AND EGG BOXES.**

**Our Stand will be Open on each day of the Show.**

**WORSSAM & ABBOTT, PYRCROFT HOUSE, CHERTSEY, SURREY.**

'Phone: Chertsey 8.

**The Poultry-Keepers Safeguard**

**"CLORINDA"**

**THE Infallible Sterilizer, Antiseptic, Germicide and Deodorant**

**Keep your Healthy Birds in Good Condition.**

**Heal your Infected Ones, and Prevent Epidemics**

**By Using**

**"CLORINDA"**

**Sole Manufacturers:—**

**THE UNITED ALKALI CO., LTD.,**

**CUNARD BUILDING, LIVERPOOL.**

Telegram: Ubique.  
Telephone: Bank 9280.

## Summerfield White Wyandottes

Pen 52. Winners of Gold Medal, Three First and Three Second Class Certificates. Laid 1,567 Eggs in 12 months, 1,460 being laid at the Harper-Adams Agricultural College Laying Trials, 1920-1921. Average per bird: 261.16 in 12 months.

### This Pen also Broke all Previous Records.

They excel in the most important points the breed should possess, viz.:-

- 1.—Birds well up to Breed Type.
- 2.—Birds of good size, but not coarse, excelling in quality.
- 3.—They have proved they will lay all the year round.
- 4.—One of the chief points in this strain is that they lay eggs well up to standard size, 2 ozs. See for yourself in official report the size of eggs they lay.

The entire Flock and Complete Poultry Plant, including Pens 74 and 74E, competing this year at the Harper-Adams Agricultural College, has been sold by

Mr. C. E. SUMMERFIELD  
TO

**Mr. MICHAEL F. PHELAN, S.P.B.A.,**  
Cleave Barton, Northam, N. Devon,

To whom all Communications should be addressed.

Telegrams and Cables: "Phelan, Northam." Code Used: Marconi International.

Telephone: Northam 62. Railway Station: Bideford, L. and S.W. Railway.

## 40% Increase

in EGG PRODUCTION by the  
**"KELITE" LAMP**

(British Made).

Install them in your Laying House

**"Stormlite"  
Lantern.**

Burns Petrol.

**38/6**

Carriage Paid.



*Absolutely Safe  
and Reliable..*

250 c.p.,  
Costing less than  
1d. per hour.

The "KELITE" System of poultry lighting for the winter is the simplest and most economical. The "STORMLITE" is strongly made, fitted with mica windows, and gives a steady brilliant, white light, which is not affected by wind or storm. We are manufacturers of all types of incandescent oil and petrol lamps for all purposes.

Use "KELITE" TABLE LAMPS, HANGING LAMPS, etc., etc., for the HOME.  
SEND TO-DAY FOR LISTS.

**KITSON ENGINEERING CO. (London), Ltd.,**

(Dept. "E"), Stamford, L.

# More and Bigger Eggs from your P

can be obtained by feeding your birds on a natural and con

# PULBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

**3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.**

Made by the Manufacturers of  
MELOX and MELOX MARVELS,  
the PERFECT DOG FOODS

**W. G. CLARKE & SONS, Ltd.,**  
LIMEHOUSE, LONDON, E.





Wednesday, December 13th, 1922.



THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASS<sup>N</sup>

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
VI, No. 24. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free	12/6
Six Months	6/4
Three Months	3/3



Bred and Owned by Messrs. Tilley & Webb,  
The Basildon Poultry Farm, Basildon, Essex.

This Pen put up a Wonderful Winter Record at the "Daily Mail" Test.



## BUY THE BEST STRAINS-IT PAYS

WHITE WYANDOTTES.

WHITE LEGHORNS.

**I**F there is one maxim that really does point the way to poultry profits it is that the **BEST** is **CHEAPEST**. Make up your mind to invest your money in Pedigree Strains and the battle is half won. Where so many guess, we **KNOW**. Our exact system of identification and absolutely accurate records, combined with many years of breeding experience, gives us the knowledge of what each bird is capable of producing.

At the moment we have nothing to offer except a limited number of Pedigree Cockerels at 2 to 4 GUINEAS

# PRIEST & SHAW

## SANDOWN, ISLE OF WIGHT

N.B.—We manufacture and supply special foods identical with that used by us for years with the greatest success. Ask for particulars.

### Yet Another Testimonial!!

LETTER No. 82.  
Ings House, Skelton Road, YORK.  
November 27th, 1925.  
Messrs. Priest and Shaw, Sandown, I.O.W.  
Dear Sirs,

Can you send me three White Wyandotte cockerels as good as those I bought from you last year?

Very glad to report that most of the early pullets from them are L2 already, and the others well on the way to it. The best pullet has laid 72 eggs since September 1st, and there are at least a dozen at her heels.

The April hatched chicks you sent me are laying well, and I notice one has a sequence of 16 straight-away.

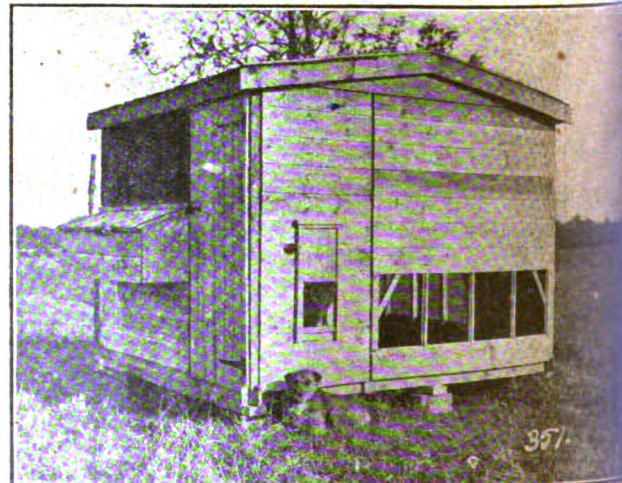
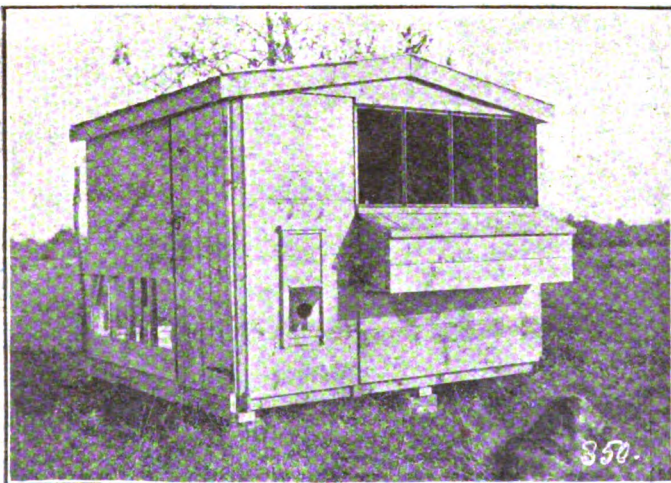
Please let me know about the cockerels as soon as possible.

Yours faithfully, DENBY COLLINS.



## SCIENTIFIC BREEDING *for* EGG PRODUCTION

### SUPER HOUSES for SUPER HENS.



7½ft. x 7½ft., 6ft. 9in. high.

Model "ELITE," Extensible and Convertible. From £12 10s., on, as shown, completely equipped.

The "ELITE" supplies the demand for a handsome and handy, though small house, which will serve for every purpose. It can be enlarged by adding small units, and converted by interchanging panels, door, nest-block, or sash, requiring a few minutes only, without interfering with the roof. Heavy floor, with eight joists and three sleepers.

Large Laying-Incubator Brooder and Rearing Houses made to Clients' own ideas, if desired.

**A Demonstrating Plant** has been erected adjoining works, consisting of Breeding Pens, stocked with the Rev. Charles Birkett's Best Winning Strains, i.e., Black and White Leghorns, Wyandottes, and R.I.R.'s. An Incubator House, equipped with two HEARSON 120 Cap. Incubators, and a Brooder House, fitted with HEARSON'S Stove. There is also a Rearing House on Rev. Charles Birkett's lines. Come and see the above in full operation before making your arrangements for the coming season.

## W. H. COLT, M.S.P.B.A. BETHERSDEN, Ashford, Kent



# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, December 13th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

**Interested Readers** are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

**Subscription to "EGGS,"** 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

**Subscription to S.P.B.A.,** 5s. per annum.

**Subscriptions** should be sent to Mr. TOM NEWMAN, The Beeches, Rudgwick, Sussex.

**Editorial Matter and Correspondence** to the Editor, The Beeches, Rudgwick, Sussex.

**All communications with regard to Advertisements** should be sent to the Advertisement Manager, 94, Arcombe Street, S.E.16. Tele.: 894 HOP. **Classified Advertisement Rates** will be found at top of first page of classified advertisements.

## EDITORIAL.

### SIZE OF EGG.

The following letter, which appears in the "Farmer's Gazette," will, we are sure, be of interest to our readers:—

#### INFLUENCE OF SIRE ON SIZE OF EGG.

To the Editor, "Farmers' Gazette."

Sir,—I read with interest your paper on "How to Improve Size of Egg" in "The Farmers' Gazette" of the 4th inst. My experience may be of use to other pedigree poultry breeders.

Some years ago, when I took up breeding White Wyandottes (specially for winter egg production) I decided to breed largely from an exceptionally good hen (pure T. Barron). She laid a fine, large, heavy egg, and was a persistent winter layer, full of vitality and stamina. I bought a vigorous cockerel from a well-known Irish breeder, and as the hen was in full lay in November, I mated her then, and had a fine flock of December chickens. I watched the pullets as they grew into fine birds, but when they began laying, all gave very small eggs (so unlike their mother's), and kept to it. This was disappointing, so one and all were scrapped and killed off as yearling hens.

Fortunately, I had not trusted entirely to that one mating, as on New Year's Day I had bought a pedigree cockerel, at a high price, from Mr. T. Barron, so the old hen was mated to him then. At that time I still believed in the fallacy of looking to the pelvic and "capacity" measurements in the cockerels, and as this bird did not quite satisfy me on

these points, I only kept him for that one season. But fortunately this mating in due time gave me pullets from the old hen which laid quite exceptionally fine eggs like their mother's. I had also a few other picked winter layers running with this T. Barron bird which laid nearly white eggs of fair size, but their daughters all gave me large dark brown eggs.

This was remarkable, and shows clearly that the sire has the strongest influence over the size and also the colouring of the eggs. It is some years now since I had this bird, but any pullets descended from him all lay good brown eggs, and are full of stamina. One (hatched March 5th, 1922) has given me thirty eggs out of the thirty-one days in October, walking calmly out of the trap-nest! and continues laying away, showing no sign of resting. Yours, etc.,

(Mrs.) J. PORTER-PORTER.

Belle Isle, Lisbellaw,

Co. Fermanagh, 16th Nov., 1922.

P.S.—In fairness to the Irish poultry breeder from whom I got the cockerel which "let me down" at first, I must add that I have got two splendid birds from that yard since.—J.P.P.

No-one will dispute the influence of the sire on the size of egg, but is there not a tendency to exaggerate it, and under-rate the part played by the dam? Writing from some experience, we have found that the mating of sires from large egg dams has not invariably resulted in improvement in the size of the egg of the progeny, and the question arises as to whether the real influence is not rather one of earlier or later maturity than as directly influencing the size of egg. We will cite two cases to explain what is meant.

The one concerns White Wyandottes which were prolific layers of small eggs, great care was taken to obtain a male from a dam with a record of 251 large eggs. There was no doubt that a genuine bird had been purchased, but no improvement in the size of egg was effected, and enquiries elicited the fact that the dam had commenced to lay when just under 5½ months old. Most of the pullets began to lay about the same age, and the inference is that this cockerel transmitted the early-maturing factor to his progeny which neutralised the large egg factor. The second case also concerned White Wyandottes, the eggs were very small and the birds had been sired by the son of a 301-egg hen. They were mated to the son of a 221-egg dam, eggs guaranteed to have averaged 2¼ ozs. in weight. There was a marked improvement in the size of the eggs of the progeny, they did not equal the records of their dams, but their

output was quite satisfactory, a very small percentage laid before they were six months old; on enquiry it was found that the dam of the male had not started to lay until she was nearly seven months old. Here then we have the different effects of the mating of two sires both from large egg dams.

Mrs. Porter-Porter's experience would seem convincing, but consideration must be given to the fact that the pullets from the first mating were hatched out of season, and there is no doubt that size of egg is to some extent affected by this. If we do not admit this, we are forced to the conclusion that size of egg is entirely dominated by the male, for it will be remarked that the hen herself was a layer of fine, large, heavy eggs, and yet all her progeny had to be scrapped because they laid VERY small eggs. When mated to the cockerel from Mr. Barron she gave progeny which laid exceptionally fine eggs. This was an exceptional bird, and his influence on the flock is seen to this day. It is the fact that the mating of this dam to two males which gave such totally different results, which makes it so difficult to appraise the influence of the male on the size of egg. It would appear to be very definite, but practical experience has taught many of us that the dam has an influence at least equal to that of the male.

It will be noted that Mrs. Porter-Porter speaks of "the fallacy looking to the pelvic and 'capacity' measurements of the cockerels." This bird from Mr. Barron, which gave her such exceptional results, did not satisfy her on these points, so she discarded him after the first year, yet many of our utility judges insist on these points in the males, and persist in their opinion, in face of the fact that there is nothing to support it, that they could not bring a single shred of evidence to prove that they are right in their contention, which is in opposition to the emphatically expressed opinion of the world's greatest breeders—practical men, who have earned their reputations in the laying tests and by their ability as breeders, not mere theorists trying to bluff the public with theories which they cannot prove. What is the use of talking of the educational value of utility shows when they are used to perpetuate a fallacy? It is all sheer theory and bluff.

#### OUR FRONT COVER.

"An egg in the winter is worth two in the summer," and Messrs. Tilley and Webb may well be proud of the fact that the pen of 8 White Leghorns, whose photograph appears on our front cover, led from 190 pens of all breeds in the "Daily Mail" Test during the months of November, December, and January. The Laying Test at Bentley is in a most exposed position, sometimes it is positively bleak, and it is some feat for a pen of Leghorns to take a leading position during the worst three months of the year, and shows what careful selective breeding can accomplish. It is said that it is a mistake to breed

from hens with very high records, and to some extent that is true, especially if only the high record is taken into consideration; there must be individual selection if satisfactory results are to be obtained, it often means the scrapping of birds which have put up some really wonderful records, and it requires some courage to do it. The pen from which this exceptional pen were bred from were also exceptional, the records being: 244, 248, 248, 252, 256, 260, 262, 265, 265, 270. The dams therefore were something more than mere sprinters, they had staying power, and they have transmitted it to their daughters.

### Two Years' Progress.

*By a Student of "Eggs."*

It has often been stated that no person should embark upon poultry farming as a profession without first undergoing a course of tuition as a modern poultry farm. The object of the writer is to show that, thanks to the existence of the S.P.B.A. it is possible, given certain qualities, to dispense with these preliminaries without the certainty of disaster.

The qualities referred to are intelligence, concentration, prudence, observation and a genuine capacity for hard work, to which might be added a combined love for animals and for the simplicities of a country life.

Three years ago your correspondent scarcely knew a hen from a duck. More than a quarter of a century of military service had left little time for the development of country tastes, except possibly that of fox-hunting, and the financial situation had hitherto given no hint of the ultimate need of working for a living when the time should come for an only moderately grateful country to dispense with his services.

At the time of writing, and without every having seen a modern poultry farm, the books of the farm under consideration show a satisfactory profit; a regular market has been obtained for the whole output of table eggs and poultry; stock birds and sittings are being supplied at good prices to breeders and farmers all over the country, and an entirely unsolicited (though possible premature) testimony has recently been received from the principal of the County Agricultural College as to the proprietor's qualification to instruct others.

It is not intended to convey the idea that the miraculous has been achieved or that the writer is in a fair way to make a large fortune, but rather to show how, by merely following the Society's advice, it is possible, within a comparatively short time, to attain a fair measure of success.

The recent acquisition of a small property with twelve acres of grass land and a few out-buildings made the scheme a possibility; the purchase of a few barn door fowls showed the first signs of

awakening interest. The fact that barn-doors were for some months left to the casual ministrations of the gardener was proof of a relapse, but the Spark was still smouldering, and a later purchase of a pen of pure-bred birds from a friend showed that it was still alive.

It was not, however, until the Spring of 1920 that any real advance was made. At this time a visit to the County Agricultural Show gave occasion for a casual conversation with one of the leading appliance makers, who was the first to bring to notice the existence of "a useful little publication called 'Eggs.'"

From that moment the Spark burst into flames!

The "useful little publication" was perused from cover to cover throughout the Summer, and in the Autumn a real start was made with a couple of breeding pens, Light Sussex and White Leghorns, of the best stock obtainable. From now on our whole energies were concentrated upon the task of learning the beginnings of a new profession. No hunting, no cricket, no tennis, no tea parties—simply hard work and the application of whatever abilities we possessed upon the task in hand.

The results of the 1921 hatching season were at least encouraging. 70 per cent. of fertile eggs incubated were hatched out, and of these 72 per cent. were reared, excluding losses from crows, which amounted to 5 per cent. Thanks to a slight preponderance of pullets the final figures showed 4 eggs for one pullet. Orders began to come in for eggs and stock birds, and by the time that Autumn came round again we had 180 healthy pullets and almost 50 second-year hens in the laying houses.

The business of a commercial egg farmer pure and simple lacked sufficient attractions for us, and so, from now on, the trap-nests were kept busy with a view to future breeding pens for pedigree stock. A fair number of L2 birds were thus discovered, most of which eventually put up records well over the 200 mark.

Extra pens with additional housing accommodation were needed, and the Autumn of 1921 saw us busy devising fresh accommodation and purchasing more plant in readiness for the extension which we felt to be justified for 1922.

The season which has just passed may possibly have been the worst hatching and rearing season on record, and it is perhaps not surprising that our results, except as regards losses from crows and hawks, showed no improvement on the previous year.

Some 1,300 eggs were incubated, of which 90 per cent. were fertile; 62½ per cent. of these were hatched, and 70 per cent. of the remainder were reared to maturity. Orders for eggs and for stock birds of both sexes were more than we could supply, prices realised reaching a maximum of 2½ guineas for sittings, 3 guineas for cockerels, and 1½ guineas for pullets. There was a fair number of enquiries for breeding pens, of which it was found possible to supply a few without seriously depleting our own stock.

At the time of writing there are in the houses 130 hens, 230 pullets, and about 35 cockerels for stud and table use, and preparations are in train for a further extension in 1923. The Profit and Loss Account, October 31st, shows a profit of £72 17s. 6. after allowing 12½ per cent. depreciation for houses and appliances, and 25 per cent. for fencing; the valuation of the pullets also has been reckoned on a basis 14 per cent. lower than in 1921, when it was considered that they had been valued too high.

It should perhaps be mentioned that a small piggery and dairy are also run at a profit, but, as each department is separately cost accounted, it is possible to arrive with some precision at the results attained by each.

The presumption of daring to offer advice after so short a training will doubtless be patent to many who read this, but, as the list of our members grows daily, it is also patent that there must be many who know even less than the writer, and, for this reason, he ventures to set forth in conclusion a few maxims which he has found helpful from the beginning:

- (1) Don't hurry; learn the ground work first.
- (2) Start with a small stock of the best obtainable and build up gradually, making use of any early profits to extend your scope.
- (3) Keep careful accounts, and, above all, don't cheat yourself in your anxiety to show a profit.
- (4) Make handsome allowances for depreciation and endeavour to produce a statement to show approximately the amount which would actually be realised should you be forced for any reason to sell up. By this means, bankruptcy may be avoided.
- (5) Never sell a bad bird or a bad egg.
- (6) Reply promptly and courteously to all correspondence.
- (7) If any customer be dissatisfied, even though unreasonably, always meet him a little more than half-way; he will probably come back next year.
- (8) Finally, make the fullest possible use of your membership of the S.P.B.A., and take "Eggs" as your guide in all things.

"FESTINALENTE."



## Testimonial.

South Lodge,  
Rushmore Hill,  
Knockholt,  
Kent.

"Eggs" has taught me more during the few weeks I have taken it, than I have learnt from all the books I have read on the subject of Poultry Keeping. and is the most eagerly looked-for paper of the week. I also have your book, "Commercial Eggs."

Thanking you for your courtesy,  
I am, yours faithfully,  
Mrs. A. M. VASS.

## Pedigree Work.

By Miss E. A. BAYNE.

Of all the work in connection with poultry keeping, pedigree work is surely the most interesting and fascinating. It is comparatively easy to pedigree poultry, and results are arrived at more quickly than with any other creatures on the farm, for within a year from the date of hatching one is able to judge the quality of the stock produced.

It is an occupation peculiarly suited to women, who will take infinite pains over the trifles which are essential to success, all their training tending in this direction.

No woman should take it up, however, unless she is prepared to devote all her time, energy and brains to the work, which is never ending, most exacting, and trying. Indeed, if one is not keenly interested, it might become a most wearisome business.

The lot of the Commercial Egg Farmer is comparatively easy when estimated alongside the life of a Pedigree Poultry Breeder. His, or her, work is never done, for one has to be a clerk when all else is finished; the book-keeping in connection with trap-nesting and stud recording is prodigious in itself, to say nothing of the correspondence, which increases as the business grows. Pleasure is an occasional treat, but the outdoor life is so delightful in itself, so health-giving and invigorating, and the occupation so absorbing that one often finds all the satisfying pleasure one needs in the work itself, for it is very varied.

Pedigree work is best carried out with comparatively small numbers of birds, which should have the owner's eye constantly upon them, they should be kept under the best conditions possible, never overcrowded, and never forced for egg production under any circumstances when they are to be used for stock. No more birds should be reared than can be adequately housed, and the land should always be under-stocked in winter. Growing grass carries a larger head of stock, so the housing accommodation usually governs the situation in Summer, but the grass must be mown or grazed, constantly swept round about the houses, and dressed with basic slag fairly often, for the best way of supplying stock with phosphates is by means of sweet and nourishing herbage. Basic slag encourages the growth of clover, of which fowls are very fond, and it soon disappears from the pasture unless thus stimulated.

It is wise, when starting pedigree poultry breeding, in connection with utility poultry, to begin with birds from an established strain. Why? Because, even if you do so, you must never cease selecting on right lines, and it may take several years before you approach your own ideal, but you have something to work on. Someone else has been selecting for the definite object of prolific egg production, and the birds have this inheritance

through many generations, which counts for a very great deal. On the other hand, if you start with birds of no particular ancestry, for a long time you will be unable to count on results with any confidence, no specific factors having been bred into, and conserved in the birds; you will be obliged to find out what factors they possess, and proceed to eliminate those that are undesirable while endeavouring to use to the best advantage those you wish to perpetuate.

If you have been unable to procure good eggs from prolific stock, chicks, pullets or hens, it is possible if your birds are not very poor, to entirely change the blood to that of a good strain in a few generations, by getting prepotent cockerels each year, and always of the same strain. Thus your first mating gives you 50 per cent. of the strain blood, your second 75 per cent., and your third 87½ per cent., when it becomes predominant, but all this takes time, and it is a question whether "the game is worth the candle"!

We want so much in our pedigree utility stock nowadays, far more than the fancier who is often satisfied with beauty alone; we certainly strive to attain beauty, if of a different type, but we also need many other attributes, such as stamina, vigour, early maturity, high fecundity, with such in eggs, all of which makes our task harder.

Mendelism has been applied to the breeding of poultry, and is an immense help, for it teaches that results are **inevitable**, and not simply **chance**, and those who have studied and applied it in this relation find it simplifies their efforts.

Suppose you wish to reduce broodiness in a heavy breed, how do you proceed? Never mate a cockerel bred from a broody hen to broody hens; you may mate a cockerel bred from a broody hen to non-broodies, or very slightly broody birds, or vice-versa.

It is not desirable to eliminate broodiness entirely, when we want good autumn and winter laying, for it gives the birds a little rest from their labours while eggs are cheap, so enabling them to continue in well doing through the more profitable seasons.

Broodiness only becomes a nuisance when it is incessant, and interferes seriously with the egg yield, but some broodiness is a distinct asset to the pedigree breeder, who always rears as many chicks as possible under hens, to conserve the stamina of the strain, it being well known that chicks feed best in small lots, to say nothing of the advantages of natural brooding, with no food of a human being alternately roasting and then freezing the little creatures so entirely at their mercy!

A beginner is very liable to be puzzled as to what constitutes excessive and permissible broodiness. I remember it was one of my own difficulties, and find after many years of careful recording that up to five or six broody turns may be allowed without seriously affecting the egg yield. A good March-hatched pullet, laying her first egg in October or November, should hardly

go broody before April or May, when she may have laid 100 eggs or more. On the other hand, January and February hatched pullets which start to lay from July onwards often go broody in the Autumn, and there are usually a few going broody early in the year, just when we want them for early-hatched chicks; indeed, it is on these early-hatched pullets that we depend, for second or third year hens rarely come up to expectations in this respect. To sum up, a good bird should lay anything from 50 eggs upwards before she is entitled to a broody fit, and all that lay 12 to 20 and then go broody should be eliminated.

There are many systems of breeding, and this most complicated and difficult science is not learnt in a day, so that the beginner is lucky when he has someone to advise as each step is taken, and a reliable breeder on whom he can depend, who keeps a record of all stock sent out, and is in a position to supply him with what he requires. Later on he will be able to judge for himself, and may be in such a position that he requires very little outside assistance.

Many begin by mixing strains, getting a wonderful assortment of birds—all shapes and sizes, and every imaginable type, a few good and many poor layers, and then ask someone to come and have a look at them. Often it is a hopeless business from the first.

The sensible few who ask and take good advice before they start contriving to do so until qualified to stand alone have the best chance of success, and this is available to all in the S.P.B.A.—how thankful many must be who have cause to bless our most beneficent Society.

**Scientific Poultry Breeders' Association**  
All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beches, Rudgwick, Sussex.

### SEX QUESTION AGAIN.

A correspondent who describes himself as "Keenly interested in Sexology," tells me that he has found some new theories which he intends to test next rearing season. He forwards me four, and asks that I shall publish them with a request that members and readers will express an opinion on them, and he is kind enough to ask for my opinion at the same time.

Here are the theories:—

(1) The successive ova are alternately male and female, and, therefore, every alternate egg is male or female.

(2) That the heavier eggs are "male" eggs, and the lighter "female."

(3) The sex is inherited from the dam alone, and the progeny of a hen which produces a high percentage of pullets, will also produce a higher percentage of pullets than males.

(4) That temperature and nutrition are controlling factors, and that high temperature in the incubator, and feeding a wide ration, will result in a big preponderance of females.

I must say that my interest on sex theories is evaporating. They remain but theories, and are constantly resurrected, nothing new appears, and my correspondent must forgive me for saying that none of the theories he has advanced are new, and some of them are as old as the hills.

The first is disproved, because females with but one ovary have produced both sexes.

The second is not new, but it has not been substantiated. We have its counterpart in a theory which was advanced over one thousand years ago when it was affirmed that the sex of the progeny depended on the weight of the milk of the dam.

The third has never been tested, but against it we have records of males which have been mated to females of different breeds in one season, and have always produced a preponderance of pullets.

I believe it is generally acknowledged that in the lower form of animal life; Temperature and Nutrition are controlling factors. There are the plant lice, for example, Young's experiment with tadpoles, which under normal conditions, produced 54 per cent. females, but when fed freely with beef developed 78 per cent. females, and we have also Girou's experiment with sheep, but we have no new theories, and as far as I can see, not one of the old ones has even been substantiated.

My correspondent will have his hands pretty full in testing any one of his theories next season; perhaps he hardly realises what a big thing it is.

### A CURIOUS DISEASE.

A member, who writes from Belgium, says:—

"My stock, which are of high English origin, are menaced gravely by a new disease, or at any rate, a disease which I have never seen before in any poultry periodicals or books. Curiously enough it has only attacked males, and I should describe it as a sort of foot rot, with peculiar symptoms, as follows:—

(1) Bird is first attacked near toe-nail, under the scales, close to the toe. The foot takes on a slightly yellow tinge (in white-legged birds).

(2) The toe gets sore and drops off, or else goes to a mere piece of bone, just covered by skin. Beyond this there is a large pustular swelling.

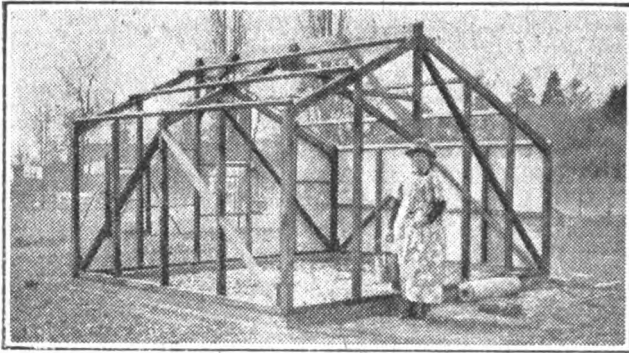
(3) The other toes begin to turn brilliant yellow, and then go a deep chocolate brown, as though the foot had been painted with iodine.

(4) The bird eats well, but now begins to droop and mope. It is at this stage I am at present, and all my Light Sussex cockerels are attacked. I regard it as a sort of foot rot."

In a second letter my correspondent says:—

"Since I wrote the birds attacked are no better, despite painting with Iodine, strong Izaal, hydrogen peroxide. The legs are full of pus, and burning hot, the toes withering away, and the legs very swollen. I have 12 out of 15 males attacked, the remaining three are apparently protected by a





Felt Brooder House, 12ft. x 15ft. in course of construction on Mr. A. H. Capper's Farm, Padworth.

shallow tray of strong Izal placed under the dry mash hopper, in which they have to stand to get at their food.

The disease reminds me of cattle plague, which attacks the feet."

Have any of our members had a similar experience, and can they offer an explanation. I cannot.

#### AN IRISH BRANCH OF THE S.P.B.A.

Someone has kindly sent me from Fermanagh a copy of the "Farmers Gazette," and I read with interest the articles by "M. H. M.," who is doing such excellent work for Irish Poultry-keepers.

I read with pleasure a letter from Mrs. Barrow, who suggests the formation of an Irish Branch of the S.P.B.A. Her suggestion is welcomed by M. H. M., who claims to be one of the first, if not the first, Irish member of the S.P.B.A.

We have a large number of members in Ireland, and I think the new Register, which I hope will be posted to all members within the next fortnight, will reveal that we have far more than the forty mentioned by Mrs. Barrow. I am sure that if a branch is formed the Council will do its utmost to support and assist it in every possible way.

#### A WARNING.

With the approach of Christmas, members will be receiving circulars from London salesmen, or people describing themselves as such, asking for quotations for Turkeys, Chickens, Geese, etc., etc. Do not be induced to part with anything to these people unless you know them to be reliable, and be very chary of their advertisements in the Poultry Press. Mr. Frank Shearn has sent me a letter from a man in Aldgate, who was associated with a man, who was probably a Polish Jew, judging by his name. This individual, by means of advertisements in the Poultry Press, managed to obtain large quantities of poultry produce, for which, of course, he never paid. He is now very likely to be masquerading under another name. Generally these people have most elaborate note headings.

#### BOURNEMOUTH BRANCH.

Another very successful meeting of the Bournemouth Branch was held on the 6th December at St. Peter's Institute, Bournemouth. The Lecturer was Mr. D. F. Lawrence, who gave a most interesting address on "Some Notes on Selection and Mating," and also some

words of encouragement to novices about not being downhearted, when something went wrong.

Several new members were enrolled, but more are wanted. The next meeting will be held at St. Peter's Institute on the 3rd January, 1923, at 6.30 p.m.

## NOTICES.

### BATTERSEA AND DISTRICT POULTRY SOCIETY.

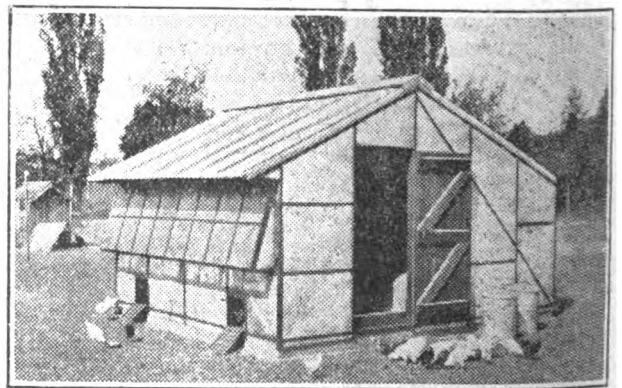
At the Latchmere Road Schools, Men's Institute Poultry Classes, it was arranged that a Society be formed, called the "Battersea and District Poultry Society"; meetings to be held the first Wednesday in the months, at 7.30 p.m., at the Institute. Several interesting and instructive lectures and discussions have been arranged. We hope to arrange a member's show early in January. A hearty welcome will be extended to all poultry keepers in the neighbourhood, and we shall be pleased to hear from any intending member. W. J. Goodridge, Hon. Sec., 39, Mallison Road, Battersea, S.W.11.

### BRIGHTON AND DISTRICT U.P.S.

At 6 p.m. in the National Schoolroom, Church Street, Brighton, on Saturday, December 16th Mr. Harold Paine will give an address on the Utility Duck. All readers of "Eggs" are invited.

### SCOTTISH NATIONAL LAYING TRIAL.

At the meeting held on November 30th it was decided to proceed with the organisation of a Scottish National Laying Trial. A large general and an executive committee was elected. It was decided that the trial should not be confined to Scottish breeders, but if applications exceeded the accommodation Scottish entries should have preference. If possible, the trial should be under weigh in 1923 a site to be sought near Edinburgh. The trial to extend over the usual 11 months, 100 separate pens (1 male, 5 first-year hens plus 1 reserve) to be arranged for, uniformity in housing and feeding to be observed. Guarantees of entries and donations should be sent to Mr. R. Scott Miller, Treasurer, or to Dr. Crew, Secretary, c/o this Department.



Felt Wooden House, 15ft. x 12ft., constructed of felt, complete, on Mr. A. H. Capper's Farm, Padworth.

## Strains! Strains!! Strains!!!

The Laying Strains of the moment.  
The Laying Strains which are setting NEW Standards.  
The Laying Strains which are breaking all past World's records are:—

## Frank SNOWDEN'S Strains

The CONSISTENCY of my SUCCESSES in the Great International Laying Tests of England and America, together with the continuous report of Success from my Clientele, give Positive Proof that I Possess Produce and Purvey some of the most consistent layers in the World.

My List of Honours Includes—Premier Cups, Gold, Silver and Bronze Medals, Ribbons and Certificates. In the current Year's laying competitions Frank Snowden's birds held 7 First Positions at the end of the first six months.

At the end of the 10th month they still hold—  
1st in "Daily Mail" £1,000 Test. 1st in National Championship Test. 1st in Harper-Adams' College Test. 1st in Missouri, U.S.A. Test. 1st Highest Individual Record, Missouri Test. 2nd Highest Individual Record, "Daily Mail."

COCKERELS and PULLETS closely related, and Brothers and Sisters to above.

Prices from 21/- to £5 5/-, according to age and Pedigree. All birds carriage paid and on approval.

WHITE LEGHORNS—WHITE WYANDOTTES—RHODE I. REDS.

Your enquiry is a Pleasure because You can be WELL SERVED by

**FRANK SNOWDEN,**

RAIKES HALL, POULTRY FARM, Cowling, Kelghley.

'Phone: CROSSHILLS 85.

## Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the flock is housed. For maximum egg production the houses must be roomy, well-ventilated, drip and draught proof, and thoroughly stable even in the highest winds. Moreover, for operating on even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house,

but only in

## SLADE HOUSES

do you find them at a price which is economically sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter section's being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing anything of factory overheads the saving here will be obvious.

**SLADE**  
SYNDICATE, LIMITED,

(Directors: E. J. W. and M. W. Slade),

28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.



## Vitamin Poultry Food

THE Yeast Extract "par excellence."

SENT DIRECT TO POULTRY FARMERS

IN view of the widespread interest in the remarkable results from Cerema, we have decided to supply Poultry Farmers on the following terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

## Better Birds —more Eggs

THIS preparation contains the important B. Vitamin so essential for the health of Birds. Birds having too little B Vitamin often go off their legs. Cerema M. helps to prevent this. Egg-laying is improved by addition of this vitamin to the food. Those who feed dry mash may give Cerema M. as a drink (1½ oz. to 1 quart water) to the Birds in the morning. Those who feed wet mash may incorporate a rather stronger solution in the mixture. Birds will take it eagerly. It increases their resistance to disease and assists digestion. Cerema M. can take the place of green food.

# THE PREDOMINANT FACTOR in POULTRY FOODS is QUALITY and PRICE—We ask you to JUDGE for YOURSELVES.

**Our Foods contain both Cod Liver Oil and Dried Yeast.**

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ...	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ...	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ...	20 0	Poultry Oats (Clipped) ...	17 6
Alfalfa Meal ...	22 0	Kibbled Maize (Screened) ...	14 6
Green Clover Meal ...	18 0	Rearall 1st Chick Feed ...	24 0
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ...	21 0	Thryvon 2nd Chick Feed ...	22 0
Meat Meal (65 per cent. Alb. and Fat.) ...	23 0	Matua Chicken Mixture ...	20 0
Chick Rearing Meal (Special), impregnated with 12 per cent. Cod Liver Oil (no milk required) ...	20 0	Yeast ...	19 0

Carriage Paid.

Carriage Paid.

Special Discounts on all the above if orders are received through the S.P.B.A.

WRITE TO US FOR A STUDY IN  
**VITAMINES**  
And their relation to SUCCESSFUL  
POULTRY KEEPING.

Post Free.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS.**

## REDUCED PRICES.

## CLARK'S PURE SUSSEX GROUND OATS.

GUARANTEED.

Manufactured in an old-established  
Sussex Mill by original Millstone  
process.

	s. d.
7lb. Bags ...	2 3
12lb. Bags ...	3 9
28lb. Bags ...	7 6
56lb. Bags ...	12 6

PRICES PER CWT.

	s. d.
1 cwt. ...	25 0
3 cwt. ...	24 0
6 cwt. ...	23 6

Carriage Paid nearest Station in  
England and Wales.

Bags included. Cash with order or  
Deposit with "Eggs."

**W. H. S. CLARK & Co., Ltd.,**  
**56, HIGH STREET.**  
**LEWES, SUSSEX.**

KEEP IN TOUCH WITH ALTERATIONS  
IN PRICES.

## GENUINE SUSSEX GROUND OATS. STONE GROUND in SUSSEX.

	per cwt.
	s. d.
Dried Skimmed Milk ...	24 0
Sussex Ground Oats ...	16 0
Maize Meal ...	12 0
Maize Gluten Feed ...	12 0
Pea Meal ...	16 0
Bean Meal ...	16 0
Meat Meal (Fine Ground) ...	22 6
Fish Meal (Best White) ...	23 6
Biscuit Meal (Fine) ...	22 6
Clover Meal ...	17 0
Broad Bran ...	12 0
Middlings (Best Fine White) ...	13 0
Middlings (English) ...	12 0
Feed Wheat (Best English) ...	14 0
Feed Oats (Best English) ...	15 0
Kibbled Maize (Sifted) ...	12 0
Flint Grit ...	5 0
Limestone Grit ...	5 6
Oyster Shell ...	8 0
Cockle Shell ...	6 6
Roller Wheat (for Chicks) ...	15 0
Dried Yeast ...	19 0
Pinhead Oatmeal ...	24 0
Whole Oat Groats ...	24 0
* Broken Rice ...	16 0
* No. 1 Chick Feed ...	22 0
Mash for Laying Hens ...	15 0

(Both the latter are Mr. Tom Newman's  
Recipes.)

Carriage Forward.

|| 5 PER CENT. DISCOUNT TO S.P.B.A. ||  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
**Britannia Mills,**  
**HEATHFIELD, SUSSEX.**

## CHAMPION POULTRY FOOD FOR EGG PRODUCTION

	per cwt.
	s. d.
Champion Laying Meal ...	18 0
Sussex Ground Oats ...	16 0
A.I. Poultry Mixture (with without Maize) ...	17 6
X.B. Mixture ...	17 6
Heavy Old Clipped Oats ...	17 6
Scotch Clipped Oats ...	17 6

No Dust. No Waste. Mixed  
Cleaned by Special Machine.

Hundreds of Testimonials.

Carriage Paid England and Wales  
Scotland 2/- cwt. extra

Samples and Price Lists Free on  
application to:—

**Wm. BRINKLER & SONS, Ltd.,**  
Poultry Food Dept.,  
**5, CLAPHAM GRANARIES**  
**LONDON, S.W. 4.**  
Telephone: Battersea 31.

## Highly-Fecund Stock Need Extra Nourishment.

Heavy egg-layers must be well-fed, otherwise their stamina is quickly undermined; their liability to disease is increased, and their power to resist it is lessened; their growth is checked, and their period of productivity and profitableness is very much decreased. Ordinary foods alone, however, are insufficient for prolific stock—something more nourishing is required, and that something is—

Concentrated  
White  
Fish Meal

# BYCOLLA

REGD

Impregnated  
with  
Pure Cod  
Liver Oil

Bycolla provides the extra nourishment so necessary for highly-fecund stock. It aids the digestion and health of the birds, and ensures a permanent increase in the egg-output without forcing or loss of stamina. Young chicks thrive, attain early maturity, and possess a robust constitution if fed with Bycolla. It also prevents the tendency to soft bone in the progeny of heavy producers. Owing to its high concentration, Bycolla is very economical—not more than 10 per cent. must be added to each mash to obtain best results.

One ounce of Bycolla per day is sufficient for six hens. This works out to a cost of 0.04 of a ld. per day (less than 1-6th of a farthing per bird).

Terms:  
CASH WITH ORDER.

**25/-** Per Cwt.

CARRIAGE PAID  
ENGLAND and WALES.

Also sold by Dealers in 7lb. Bags. Price, 2s. 3d.

**BICOL, Ltd., 53, VICTORIA ST., GRIMSBY**

WE GUARANTEE THE ONLY OIL ADDED  
TO "BYCOLLA" TO BE  
PURE VETERINARY COD LIVER OIL.

No. 6.  
SIZE



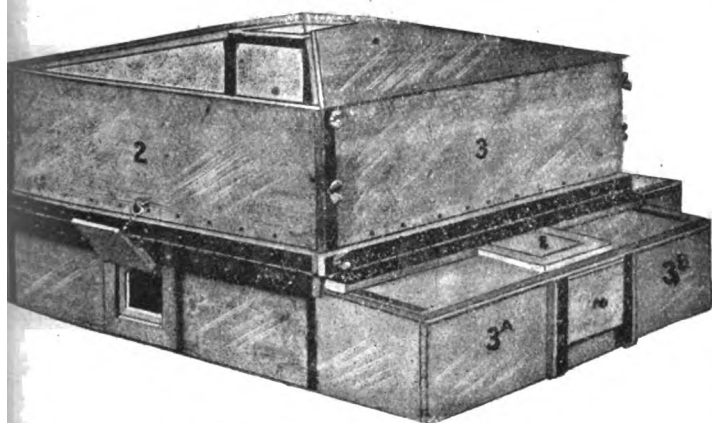
TRADE MARK.

## ILLUMINATED FIRELESS BROODER

(PATENTED)

Built Specially for Brooder House Work.

**20-320 CHICKS  
UP TO SIX WEEKS OLD**



THIS Brooder is constructed with centre. light and ventilation shaft. The source of light is not used as a heating agent for the chicks in any way.

The Brooder. will hold up to 320 chicks in one flock to six weeks old. If desired, chicks of two, three, or four different ages can be reared at one time. The entire absence of huddling at all ages is a noticeable feature of the working. The complete unit can be taken down into sections in 10 minutes, without the use of a tool.

Particulars in our NEW ILLUSTRATED CATALOGUE.  
Post Free on Request.  
etc., of smaller FIRELESS BROODERS. TRAP-NESTS  
and EGG BOXES also in the Catalogue.

**Price 12 Gns. Carriage Forward.**

**VORSSAM & ABBOTT,  
PYRCROFT HOUSE, CHERTSEY.**

'Phone: CHERTSEY 8.  
Telegrams: WORSSAM,  
PYRCROFT, CHERTSEY.



# NITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Uneurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 22/-;  $\frac{1}{2}$ -cwt. parcels, 13/6;  $\frac{1}{4}$ -cwt. parcels, 7/6

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION.

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES & LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote an extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL POULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order, or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

**HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),**  
515, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### TESTIMONIAL LETTER

7th December. 1922.

F. J. Churchyard, Esq.,  
91, Farncombe Street,  
S.E.16.

Dear Sir,—

In reply to yours of the 20th inst. as a result of the three insertions of my advertisement in "Eggs," I am pleased to say all the Appliances have been sold. "Eggs" has succeeded where other papers failed. I think it an excellent advertising medium.

Yours faithfully,  
H. P. HOSGOOD

## ROUP, GAPES, CRAMP, COLDS, SCALY LEGS AND ALL POULTRY DISEASES.

### Mr. Cecil L. Byrne,

Gives instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."

Supplied on Application FREE OF CHARGE by the Manufacturers of

FLUID **IZAL** POWDER  
DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

**IZAL FLUID.**

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

**IZAL POWDER.**

7/- per 14 lb. Bag. 14/- per 50 lb. Bag.

At all Chemists.

**NEWTON, CHAMBERS & CO., Ltd.,** Thornccliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcoo Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

A. M. S. (East Hanningfield). "I started a small Poultry Farm last March, and bought 350 day-old chicks and about 40 1921 birds, all guaranteed L2. I was unable to start trap-nesting until November 8th, and am anxious to know how I should select my breeding pens. With regard to pullets, what should be considered of primary importance, standard weight of egg, early laying, total number of eggs laid, and usual number of sequence. For example, among my pullets are about 50 birds that laid on November 8th, and have since then laid from 12 to 18 eggs each; BUT, in some cases where 18 are laid, ALL eggs are under-weight—some are about equally divided, and some—though only laying 12 eggs—are all over 20zs. Should I give the birds with lower average, but all over 20zs., preference to the prolific layer of smaller eggs? Again, I have pullets that did not start to lay until November 20th, or later, but all are laying over 20z. eggs. Should they be chosen before birds that started laying earlier or not? (2) With regard to the hens, all guaranteed L2, some of these hens have not yet moulted, and one whole pen has not laid since the moult. Now is it advisable to breed from those only which are laying steadily. Also what would be a good average for hen for these winter months, and what a good sequence? Also could you tell me if a pullet which lays, say, 260 eggs her first year, is more likely to lay well than a pullet which has laid only 50 eggs in the same period?"

It is not a question of primary importance, A. M. S. Rather it is a question of obtaining a marketable egg and prolificacy. High fecundity is correlated with early maturity, when production begins at a very early age development is checked, and as the reproductive organs develop with the body, if the development of the latter is checked, so will be that of the reproductive organs, with the result that we get both small birds and small eggs. If we breed from such birds we

shall perpetuate such an undesirable characteristic, so that they should not be used in the breeding pen. But you must not condemn pullets, if at this early stage they are not laying 20z. eggs, as the eggs will no doubt reach the standard in two or three weeks. Of course, those which lay phenomenally small eggs, or, say, eggs which are not yet 1½oz. in weight, should be ruled out. Those pullets which have not yet commenced laying you should not use as breeders, as these slow maturing birds are nearly always poor layers, and slow maturity you will also perpetuate if you breed from them. I think the best advice I can give you is this: Take the first six weeks of their laying; those which lay eggs averaging over 1½ozs. during that period will be pretty certain to lay a standard size egg, those which average four eggs and over per week during that period keep for your cockerel breeding pen, those which lay three and over as pullet breeders, those which lay less than three keep for laying only, and sell just as they go into the moult, which in their case is pretty sure to be an early one. Those which have not laid at all sell at once. Your pullets are heavy breeds, I take it, and March hatched. This rule will apply to April hatched White Leghorns. Your records must not be the end of selection. Be sure not to breed from hens which are smaller than the average of the breed. A pullet which lays 260 eggs in her first year, will be nearly certain to lay more than one which has laid only 60 in her second. There are individual exceptions to this, and we have records of pullets which laid between 50 and 60 eggs, which as hens have laid over 200. As to the L2 hens they should all be fit to breed from, but if any of them moulted early, say, in July, I should scrap them, as this indicates inability to stay the course. Those which are still laying are your best layers, but you should endeavour to throw them into a moult now, as if they do not get a rest before the breeding season, the eggs will hatch badly, and the chicks be difficult to rear.

H. H. D. (Liss). I cannot amplify the information I gave W. S. P. If you follow the instructions, as a general rule you will find the results will be good. It is the best system of supplying moisture I know, and far better than supplying it in the machine itself.

E. A. H. (Downton). If you will refer to "Eggs" of August 9th, you will see the experiment as carried out by Dr. Plimmer described, and all I said on the subject at Harper-Adams, I cannot repeat it here, but if you have not the copy the Council of the S.P.B.A. are issuing the paper in pamphlet form, and it will be sent free to members who apply. It will be ready this week. The person you name had nothing whatever to do with the experiment, which was carried out by Miss Malcolm and Mrs. Pember on the Wellingham P.F. for Dr. Plimmer, under the auspices of the S.P.B.A. He was only visiting the farm by chance, and some of the details were told him. A good fattening mash for trough feeding would be: Two parts Fine Middlings, one Sussex Ground Oats, one Barley Meal, and one White Maize Meal. Mix this with the skim milk, which will be better if it is sour. It should not be sloppy nor yet so crumbly as when feeding laying birds.

V. A. H. (Basingstoke). Your mash would be better if you used two parts Bran, four Middlings, one Gluten Feed, one Sussex Ground Oats, one Fish or Meat Meal. Do not scald the bran, use it to dry off the rest with to a crumbly condition.

D. H. (Blackley). Yes, dry mash is as good as wet for winter egg production. (2) The mash you give is unnecessarily expensive, and would be too fattening for non-layers. The following would be as good and less expensive: 1lb. Bran, one Alfalfa, four Thirds, one each Maize Gluten Feed, Sussex Ground Oats, half Dried Yeast, half Fish Meal. This would be more palatable than your present mash. (3) You could not use the bakers' yeast.

T. W. P. (St. Dogmales). I cannot tell you how long Ossified Dried Yeast would keep as I have never tried; if properly stored, it would keep a fairly long time. Fish Meal should contain 8 per cent. Cod Liver Oil. The copy of "Eggs" January 25th is out of print. The Fish Meal impregnated with Cod Liver Oil is advertised in "Eggs" every week. The chick mash you refer to was as follows: Middlings, 4lbs.; Maize Germ Meal 2, Sussex Ground Oats 3, Dried Yeast  $\frac{1}{2}$ , Linseed (Crushed)  $\frac{1}{4}$ , Fish Meal, Impregnated with Cod Liver Oil, 1. Mix one pound of above with 3lbs. of Broad Bran; at six weeks old reduce the Bran to 2lbs. The Germ Meal is a very good sample.

D. N. (Wrotham). Prolapsus of the Oviduct is usually caused with difficulty in laying. The effort to expel a very large egg, you can do nothing to prevent it; it may occasionally be due to the feed being a little too stimulating in the case of a heavy layer.

A. K. (Dawlish). I do not like this sample of Meat Meal, which is apparently what is known as "Car-case" Meal; of a good sample you might allow up to 15 per cent. in the mash.

B. Sc. (Dewsbury). You have made a mistake in allowing the cockerel to run with the pullets from the time he was 5½ months old. I don't wonder he hasn't any "ginger" in him. You can remove him at once, but it is bound to affect his capability as a breeder. Thanks, I have read the article to which you refer.

A. D. (Cheshunt). Yes, your reading of the pedigree is quite right. Your wet mash would be much better if you reduced the Bran to one part, and replaced one part of the Maize Meal with Sussex Ground Oats. If you allow one teaspoonful of Cod Liver Oil to every pound of mash that will be the right quantity.

F. M. (Horsham). As your Black Wyandottes are such rank bad layers, your best plan will be to dispose of them at once, and not cross, as you suggest, either with Minorcas or Black Leghorn. I think you would be wise to take up another breed, as the Black Wyandotte is not very satisfactory, as the soil is heavy clay, the Buff Rock or Rhode Island Reds would be best.

John (Bolton). I have not space here to give you all the formulas you want. They appeared in the June

7th issue of "Eggs," will appear in the Annual Register of the S.P.B.A., which will be issued in a few days, and the formulas were also given in the October 18th issue. Or we can supply them in the pamphlet, "Modern Poultry Feeding," price sixpence, free to members of the S.P.B.A., who send a stamped addressed envelope.

C. B. W. (Byfleet). It would not matter in such a case whether you used Maize Germ or Meal, the object being to supply more fats. There is no objection to your quoting anything I have written.

C. H. V. (Havant). If you obtain Mr. Toovey's book, "Commercial Poultry Farming," you will see the whole system of natural hatching and rearing described there. The fighting difficulty at feeding time is overcome by the hens being each shut in different sections in the sitting house, where they sit and feed separately, so that there is no possibility of fighting. This applies when they are with the chicks. There is no chance of the hens being able to attack one another, because they are all in separate coops and runs. As to how he obtains the broodies, they are all from his own stock, more than that I cannot tell you, and I don't think he can himself.

W. C. (Bishop's Waltham). No. 1 sample of Gluten Feed is the best. No. 2 contains too much offal. Both samples of Ground Oats are good, but I prefer No. 2. The Dried Yeast is a very good sample. Bran No. 2 at 7s. 6d. is better value than No. 1 at 9s. No. 2 is the best sample of Middlings. The Dried Yeast at 17s. 6d., although a good sample, is in flakes, and it should be a meal.

L. T. M. (Heathfield). One cannot say definitely what will happen with cross-breeding as far as production is concerned. With low productive stock there is generally an improvement as the result of the first cross. With highly fecund stock, however, there is the opposite tendency. The Brown Leghorn Sussex cross gives a quick maturing table fowl, rather smaller than the pure Sussex, but quicker to mature. It is a better layer than the AVERAGE pure Sussex. Be Spongia. You were using the pilules, and, I believe, in the article, tablets are specially mentioned. Then you say you gave it in four obstinate cases of swelled face, and after six days' treatment the faces are no less swelled, although the bodily health of two of the birds has improved, and one has laid, which you attribute to leisurely feeding without worry from healthy birds. I cannot say. You have only given it in obstinate cases, presumably of long standing, which have refused to yield to other treatment, and may have become chronic. That is hardly a fair trial, is it?

P. J. H. (Yorks). I cannot recommend any metal incubator other than the two you mention. They are the only two I know, and can be relied on to give satisfactory results.

J. C. E. (Roxburgh). The sample of Maize Gluten Feed is a very good one, far better than any I have seen for a long time; in many samples

now they are including a high percentage of the offal which is of course of low value. The sample of Linseed Meal is just fair. I am pleased to know that you have had such good results on the dry mash, because you are the third member from Scotland to write and say so this week, and many readers in the North were afraid to start dry mash feeding, because some wiseacre had said, "It's all very well in the South, but it won't answer in the North."

J. W. H. (Quinton). We shall have to assume in the first place that your chicks did die from Bacillary White Diarrhoea. Assuming that to be the case, the reason why you lost some in foster-mothers and not in others of the same make would be because there may have been no infected chicks in some of them. I do not believe that 5 per cent. of the chicks hatched are hatched from infected hens, or perhaps it would be more correct to say, that more than 5 per cent. of the hens in any flock are active "carriers." The chief source of infection is through the droppings. I think we want more evidence as to the value of the blood agglutination test. At any rate, you should write to Miss Knight for the information you want on this point, and whatever is done, don't forget to fumigate both your incubators and brooders. Many thanks for your appreciative remarks about "Eggs."

J. H. P. (Wemborothy). You ask me whether egg farming can be made to pay run on scientific lines. I have plenty of evidence that it can be made to pay, but I don't quite understand in what sense you use the word "scientific." But to a man with the necessary experience, capital, energy and aptitude there should be no difficulty in making a good livelihood. I should have added business ability to the above accomplishments. (2) The London market is not necessarily the best one, but as you have such excellent railway facilities, the fact that you are 200 miles away should not disturb you.

#### POST-MORTEMS.

H. A. B. Crawford. Your bird had a much enlarged and diseased liver, also congestion of the spleen and kidneys.

J. Maxwell. Your bird had congestion of liver, spleen, intestines, kidneys, ovary and lungs. I think she must have had a chill. The best treatment would be to keep the bird in a warm place, and feed her on bread and milk only for a few days.

H. Williams. Your bird had peritonitis, due to rupturing a yolk sac internally. She had also congestion of the lungs.

C. H. Dyer. Your bird had marked congestion of the lungs. There was blood in her mouth. I think she must have had an internal chill.

R. Ticehurst. The drake's intestines were very red and congested, otherwise he was healthy. I think he must have picked up more poison, or something which did not agree with him.

M. B., Leghorn. The bird had peritonitis, due to rupturing a yolk sac internally. She had also a cold in her head, an congestion of the lungs. For a report to appear in the following issue, it is necessary for it to arrive by Friday morning.

Liverpool Virus. There were many haemorrhages in the bird's liver. The spleen was enlarged. The intestines were congested. I found some germs in the bird. I do not think they are the same as those found in Liverpool Virus. They are more like those of B.W.D. I will give you a further report on them next week.

D. H. N. The bird had peritonitis. She had one decomposing soft-shelled egg loose in the abdomen. One large badly shaped yolk sac, filled with greenish yolk, was still attached to the ovary.

R. N. Your pullet had cancerous growths in the liver, ovary and in the lower part of the abdomen.

L. Macdonald. Your bird had peritonitis, due to having ruptured a yolk sac internally. She seemed healthy otherwise. I think this must have been a pure accident.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### TWENTY-SEVENTH LIST.

Carried Forward ...	£1,131	17s.	7d.
F. B. Booth (discount) ...	7	9	
V. J. Youens (discount) ...	1	9	
Robert B. Reed ...	5	0	
A. J. ...	5	0	
Jackson and Wilson ...	1	6	
J. Whitehead ...	2	9	
Miss E. Scholes ...	1	9	
H. H. Gibson ...	21	0	
C. T. Johnson (discount) ...	1	8	
Miss Hasler ...	80	0	
R. A. Bigland (discount) ...	2	10	
R. W. Wilson ...	6	6	
Mrs. M. B. Norton Walker ...	5	0	
A. H. Wurr ...	5	0	
Total	£1,139	5	1

Total Amount Collected, £4,687 9s. 4d.  
S.P.B.A. Contribution, £1,139 5s. 1d.

£1,900 are still required before we can claim the £50,000 offered by the Government for the National Poultry Institute and Research Stations;



there are plenty of other interests clamouring for that £50,000, and, although no time limit has been made, it is perfectly certain that the offer will not be kept open for ever, the Government will transfer it to some other section of Agriculture, who will be more appreciative of its generosity than the Poultry Industry appears to be. Our opportunity will then be gone for ever. And for Research work we shall have to depend on private enterprise. Surely we have talked enough of the apathy and indifference of the Ministry of Agriculture in the past—what are we to say if we fail to raise this money.

#### SOME NOVEL OFFERS.

A Derbyshire Reader offered to subscribe £10 if 100 readers of "Eggs" would do the same, in order to raise the S.P.B.A. contribution to £2,000.

Mr. P. L. Johnson, Mr. E. Bostock Smith, Mr. W. M. Appleton have all accepted a Derbyshire Reader's challenge, and will give £10 each if we can find 96 more to do likewise.

Or Mr. P. L. Johnson offers to give £50 if 20 readers will give the same amount or £25 if 40 readers will do the same. That is a very sporting offer, and it would be a proud day for "Eggs" and the S.P.B.A. if the challenge was accepted.

Other offers this week are:—

Miss Barbara Raye offers a sitting of eggs from her pen of Khaki-Campbell ducks which won the National Laying Test at Bentley, Laying 1,188 eggs.

Mr. G. F. Wheeler is prepared to offer 2s. 6d. to the fund on sale of every cockerel of the following breeds at 21s. each: Rhode Island Reds, parents direct; Worcester-Crowley strain, trap-nest records of parents 220—268; White Wyandotte. Taylor-Lowen breed direct, trap-nest records of parents 260—275. White Leghorns, Cam-Barron, parents' records 230—275, 15s. each.

Miss Simpson offers a sitting of her registered pen of Rhode Island Reds.

Also we have a complete Anti-Diphtheric Roup Serum Treatment Outfit. This includes the syringe and all accessories, serum, etc. The price is 17s. 9d. The offer is made by Mr. M'Laren.

Mr. Kenneth Brown offers five 50-chick size brooders, these are a new type which we saw exhibited at Leicester Show; they were used on Mr. Brown's own farm with great success. The price is £3 10s., but Mr. Brown offers them for the fund at £3, one-third of the first sold to go to the fund, and one-sixth of the remaining four.

We call attention to Mr. Edward Brown's offer published in another column. This should interest our readers, as Mr. Brown's experiences have been unique, and his observations of Poultry Keeping in other lands interesting and instructive.

Mrs. Wyndham Malet, a "Dale-Vita" duck house. An illustration and description appeared on the front cover of 22nd November issue. We draw attention to the fact that the house is fitted with the "Vita" trap-nest front, and it has five sections. The price is £5, carriage paid; boarded floor 12s. 6d. extra.

Mr. Sydenham Hannaford offers eight large Pioneer Hovers at £2 10s. each. These hovers are so well-known that it is unnecessary to say anything about them.

A Guildford Reader offers Black and White Leghorn cockerels, guaranteed to be bred from trap-nested hens with records of 210—240, price 15s. each, 5s. from each bird to go towards the fund.

A Lancashire Reader offers one White Wyandotte cockerel from a pen with records of 230 to 240, March hatched. Sire's dam 503 eggs in two years, non-broody.

One Ancona from a pen with records of 208 to 245, March hatched. Sire's dam 277.

Also eight White Wyandottes and Eight Anconas from same pens as above, price £1 each for the Wyandottes, and 15s. for the Anconas, 2s. 6d. on each bird for the fund.

Miss Moncrieff offers one sitting of duck's eggs. The drake is direct from Mrs. Ballard, and the dam laid 311 eggs in the year.

Mrs. E. Lewis offers four sittings of White Wyandotte eggs, delivery in February, from pen with guaranteed records of over 200, mated to Barron cockerel, from a 245-egg hen.

Miss Harrison-Bell offers two pure-bred Khaki Campbell drakes, hatched March this year, from pen sisters to her Bentley pen, containing "Madam Sequence," who laid 171 eggs in 171 days, and 240 eggs in 44 weeks.

#### NATIONAL UTILITY SOCIETY'S SHOW AT WESTMINSTER.

The N.U.P.S. Show at the Horticultural Hall at Westminster was an undoubted success, and we heartily congratulate those responsible for the management on the result of their efforts.

London County Council Restrictions do not permit cockerels to be admitted, but as no practical breeder would seriously contend that he would select his males by the handling test, that did not matter.

The class of stock shown was distinctly good indeed, we are inclined to think that some of the Sussex would have shown to distinct advantage in Exhibition classes, particularly Mr. M. A. Grant's Brown Sussex.

Whatever the educational value of utility shows may be, it must be said that they have done nothing yet to improve the general conception of type which in the Wyandotte classes varied in wonderful degree. In our opinion, the White Leghorns were a distinctly better class.

We were interested in the Gatins pullet, which seemed to be of a very useful utility type, not unlike our White Orpingtons but hardly so big, they are good table birds and layers of large eggs.

Whether the Buff Sussex will ever commend itself to breeders we have yet to see, at the present stage they are hardly attractive, and one suspects the infusion of Rhode Island Red blood. The type is good.

There was an excellent display of appliances and foodstuffs.

## The Grand International At Olympia.

There may be those who regret the transference of the Grand International Poultry and Pigeon Show from the Palace to Olympia, but we imagine they will be few and far between. Probably never before in this country has a great show been held under more favourable conditions—which were appreciated alike by the Exhibitors, Standholders and visitors. On all sides we heard expressions of satisfaction, and we may chronicle this year's Show as a great success. There was a splendid array of appliances, much that was new and original—one gets the impression that there is more originality—a move to get away from the stereotyped lines, the needs of the Poultry Farmer are being more carefully studied; he has no longer to take what he can get—he can get what he needs.

There is such a multiplicity of choice—that choice may be difficult. How many different types of incubators and brooders did one see, for example? Each, of course, had its own particular merits and demerits. The former carefully explained, the latter left for the buyer to discover, but they were all there, and if you did not get a good one it was your own fault.

Surely, with the choice at our command, we shall find an incubator that will hatch every hatchable egg, and a brooder that will rear every rearable chick.

Houses of all designs, with prices more reasonable than they have been since pre-war days, and construction far better than it has been for some years past, both as regards material and finish.

Some ingenuity has been expended in developing the perfect trap-nest front. We counted up to twenty different kinds, and one or two were exceptionally good. Coming to the birds, at no other Show probably does one get such an idea as to the numerous breeds and varieties of fowl there are as at the Grand International—from the lanky modern Langshan to the Scots Dumpy—the enormous Black Orpingtons to the curious little Silky—from the hard-feathered Game to Frizzles. One single Lakenfelder was on show; it is some years since we have seen one. Game were a good show, but Jubilee's Indians were cancelled.

Dorkings were a nice lot, but one does not see many new names among exhibitors of this fine old breed.

Brahmas and Cochins still find a few followers. The lanky modern Langshans were poorly represented as far as numbers go, but Croads were a splendid show, and everything points to a revival in this grand breed. But surely the club made a mistake when they recognised a Utility Section, and provided Utility classes. The standard is such that any utility breeder can breed to it, and,

in our opinion, this innovation is most undesirable in the interests of the breed.

There was a time a few years ago when the Orpingtons were the biggest class at any show, now they are dwindling in numbers each year—a tribute to the work of the extremist, and the failure of judge to judge to standard.

The winning Black Cockerel was certainly a wonderful bird, and breeders must be complimented on their skill, but to what purpose is all this, even those who cling to the breed so tenaciously must regret the past.

The Wyandotte classes were well filled, but the craze for size mocks the utility breeder. We hear much of the "beautiful curves" of the Wyandottes, but some of the birds we saw, especially the cockerels, were very coarse, and the beauty was not so apparent. Blacks make very little progress, their utility qualities are not too evident. What an excitement they created years ago, but they have not attained to much.

Leghorns were a good lot, but with White we much prefer the racy utility bird to the stilted anaemic-looking article so dear to the heart of the Fancier. Blacks were more to our liking. They were a really good show, and the newly-formed British Black Leghorn Club is looking well after their interests. The breed has made an immense advance in popular favour. Browns, too, are attracting more attention.

Barred Rocks did not seem quite so numerous as in other years, and the Buffs do not seem to make headway, which is surprising in a breed of such splendid utility qualities. The classes for Whites were cancelled, and this variety which has done so well in America has never won its way into popular favour here.

Minorcas were well supported, perhaps the extravagant headgear was not so much in evidence this year. If the exhibitor claims that the utilitarian has no eye for beauty, he will have a difficulty in sustaining it in the case of Minorcas. Some utility cockerels which we saw at Mr. John Meeking's farm at Watford would have compared more than favourably with any we saw at Olympia.

Anconas were not a big class, and there is no evidence that they have made the advance in popular favour their excellent qualities suggest and which they were expected. Is it because breeders fear their "wildness"? Rose-comb classes were cancelled, presumably this variety will not again emerge from obscurity.

Black Marias are finding quite a few followers. What a pity to condemn a breed with such a hideous name. Campines show no improvement, and are not gaining ground with the public. We wonder what has become of the White variety which was exhibited some time ago.

Sussex and Reds were grand classes, and attracted bigger entries than other. Light Sussex were a wonderful show, Browns, although numerous, were most attractive. Reds and Speckleds were both very good.

Indian Runners were predominant among the Ducks, Aylesbury's and Rouen's were poorly sup-

ported, as were Pekins. Buff Orpingtons were a good class.

Much interest was displayed in Gatinaises and Noires du Berry, which were exhibited on the stand of Messrs. Bingley and Hughes. It is unnecessary to say that both are French breeds. The former impress one as being possessed of great utility qualities. A fine table fowl, good layers of large white eggs, non-broody; they are not unlike our old-time White Orpington, carrying, of course, more comb, and being finer in bone. This is a breed which may well take a prominent place as a Commercial Fowl in this country. The Noires du Berry are a handsome fowl, and one immediately suspects there Black Bresse blood in their make up, but we are assured that such is not the case. They are good layers of marketable eggs and good table birds.

At the S.P.B.A. we had a very busy time. We had a large number of visitors every day, but to this we shall refer later.

#### APPLICANTS FOR MEMBERSHIP.

Laurie, Miss M., Thatchby, Brockenhurst, Hants.  
 Woods, T. (Jr.), Scraps Hill, Worting, Basingstoke.  
 Whinyates, Capt. R., 26, Sussex Place, London, S.W.  
 Hudepith, Wm., 13, Alexandra Row, Barrington Colliery, Bedlington Colliery, Northumberland.  
 Nutter, W. H., North Meds P.F., 26, Manor Road, Southport.  
 Handley, Thomas, 54, Colonels Walk, Goole, Yorks.  
 Leather, Mrs. E. P., Bollington Hall Farm, Nr. Altrincham, Cheshire.  
 Goodwin, J., Higher Lane Farm, Kettleshulme, Whaley Bridge, Via Stockport.  
 Lee, W. Fred, "Birdie Brow," Craigley, Nr. Clitheroe, Lancs.  
 Hammill, Capt. C. T., Trevova Farm, Probos, Cornwall.  
 Simpson, Miss C. E., "Viatoris," Boston (West), Lines.  
 Crothwaite, G., Thornaby Hall, Thornaby-on-Tees, Yorks.  
 Kay, Arthur, Ivy Cottage, Park Lane, Orrell, Nr. Seaforth, Liverpool.  
 Pengelley, Thos. John, Church Town, Blisland, Bodmin, Cornwall.  
 Rood, Thomas, 2, Council Houses, Meare, Glastonbury, Som.  
 Clarke, Mrs. A. G., Crownlands, Waltham-le-Willows, Bury St. Edmunds.  
 White, Chas. Vic., The Old Mill, Cordleton, Sway, Hants.  
 Boulton, A. C. F., Shirley Holmes, Lymington, Hants.  
 Yates, Reg. Pardoe, Terrick, Princes Resboro', Bucks.  
 Tyler, R. Gordon J., "Hillview," Kingston, Lewes, Sussex.  
 Douglas, Capt. Keith J., Avenue Road, Cranleigh, Surrey.  
 Lloyd, Lt.-Col. E. C., 11, St. Romans Road, Southsea, Hants.  
 Davis, E. W., 8, Cobbe Cottages, Olney, Bucks.  
 Heywood, T. M., Bericote, Malvern Wells.  
 Preston, Horace A., The Lodge P.F., Wigston Parva, Nr. Hinckley, Leicester.  
 Main, Jas., 14, Rossland Place, Kinghorn, Fifeshire, N.B.  
 Jones, A. Wynne, "Clanraon," Marley Road, Harrietsham, Kent.  
 Bowman, Chas. E., Blackhill, Ballycarry, Co. Antrim, Ireland.  
 Busby, A. E., "Dorlen," Daws Heath Road, Rayleigh, Essex.  
 Miers, Mrs. E., Seven Acres, Chieveley, Nr. Newbury, Berks.  
 Layman, E., Beechcroft, Prestwood, Bucks.  
 Hutton, J. H. M., The Hole Farm, Woodgate, Quinton, Nr. Birmingham.  
 Wheatley, J. S., Willingham, Nr. Lincoln.  
 Searle, Mrs. A. E., "Westcott," Dawlish Road, Starcross, Devon.  
 Hankinson, Wm., 73, Bury Road, Edinfield, Lancs.  
 Fisher, Ernest, 151, Lees Grove, Thornhill, Lees, Dewsbury.  
 Mathews, J. S., The Hampshire Utility P.F., Totton, Hants.  
 Charles, Miss H. M., Caravan, Yapton, Nr. Arundel.  
 Vincent, Frank, Nether Wallop Mills, Nr. Stockbridge, Hants.  
 Taylor, John, Willow Tree Poultry Farm, Irlam, Manchester.  
 Audrien, George, Sainte, France (Seine-et-Marne).  
 Walker, Mrs. N. B., Norton Grange, Nr. Gloucester.  
 Airlie, Earl of, Cortachy Castle, Kirriemuir.  
 Evers, Mrs. A. E., 61, Mount Park Road, Ealing, W.5.

Knight, R. G. W., "Villino Vergerio," Grandola, Val. Menaggio, Lago Di Como, Italy.  
 Kent, H. M. B., Balna House, Terrace Mount Road, Bournemouth, W.  
 Maish, Mrs. Timaru, Church Road East, Parkstone, Dorset.  
 Leechallas, Mrs. M. Newlands, Charminster House, Dorchester, Dorset.  
 Bailey, Miss E. M., 61, Arnewood Road, Bournemouth, Hants.  
 Wurr, A. H., Paradise, Cheshunt, Herts.  
 Housden, T. K., 4, Ellet Grove, Rocky Lane, Liverpool.  
 Rawles, R. T., Seven Barrows, Wareham.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK ENDING, FRIDAY, DECEMBER 8th, 1922.

**GRAIN AND FEEDING STUFFS.**—Demand for British wheat is only moderate, and, with ample supplies on offer, an easier tendency is evident, milling samples averaging about 44s. 3d. per 504 lbs. against 45s. last week. Imported wheat is also inclined to be easier, although spot supplies are short. Moderate and inferior grades of British malting barley are almost unsaleable, and even the best grades are in slow demand at lower rates. Feeding descriptions meet a moderate trade at somewhat easier prices. English oats are steady at about last week's prices, while imported oats and maize are slightly cheaper, Argentine maize averaging 37s. 9d. per 480 lbs. against 38s. 6d. last week.

Supplies of bran are still short and prices have advanced further, averaging £7 10s. per ton, but coarse middlings remain quiet and are again easier at an average of about £8 7s. per ton, or 7s. per ton less than last week. Maize meal is also cheaper. A fair trade is passing in oilcakes at round about recent prices.

**MILLERS' OFFALS.**—Bran (British): Hull, £7 12s.; Liverpool £7 12s.; London, £7 5s. Broad Bran: Hull, £9 2s.; London, £8. Fine Middlings (Imported): Liverpool, £9 12s.; London, £9 12s. Coarse Middlings (British): Bristol, £9 7s.; Hull, £8 2s.; Liverpool, £7 15s.; London, £8 2s. Pollard (Imported): Bristol, £7 15s.; Hull, £6 15s.; Liverpool, £6 15s.; London, £7 2s. Rice Bran: Bristol £8 5s.; Liverpool, £7 15s. MEAL.—Barley Meal: Bristol, £10 10s.; Hull, £10; London, £10 15s. Maize Meal: Bristol, £10 17s.; Hull, £9 10s.; Liverpool, £10; London, £10 10s. Maize Germ Meal: Bristol, £10 15s.; Hull, £10; London, £10 10s. Maize Gluten Feed: London £9 10s. Locust Bean Meal: Bristol, £9; Hull, £8 15s.; Liverpool, £8 15s.; London, £8. Bean Meal: Hull, £13; London, £13. Fish Meal: Bristol, £16; Hull, £15 10s.; Liverpool, £15; London, £14 10s.

#### EGGS AND DEAD POULTRY.

Eggs (per 120):—British, 34s., 32s.; Irish, 28s., 26s.; Danish, 30s., 25s.; Dutch, 30s., 24s.; French, 28s., 25s.; Italian, 26s., 22s.; Lithuanian 17s. 6d., 16s. 6d.; American, 17s.; Argentine, 18s., 15s.; South African, 21s. 6d., 18s.; Canadian, 19s., 18s.; Australian, 22s.; Egyptian, 13s., 12s.; Polish, 16s., 15s. Dead Poultry (per lb.):—Fowls, 8s., 1s. 9d., 1s. 6d.; Irish, 1s. 4d., 1s. 0d.; Others, 1s. 6d., 1s. 0d. Ducks, 1s. 6d., 1s. 2d. Geese, 1s. 2d., 10d. Turkeys, 1s. 6d., 1s. 2d.

#### EGGS.

Per Doz.—Ashford: First, 3s. 1d.; Second, 2s. 10d. Birmingham: First, 3s. 8½d.; Second, 3s. 6d. Carlisle: First, 3s. 6d. Chelmsford: First, 3s. 3d.; Second, 3s. 0d. Denbigh: First, 3s. 8d.; Second, 3s. 6d. Derby: First, 3s. 10d. Dechester: First, 3s. 6½d. Hereford: First, 3s. 0d. Hull: First, 3s. 6d. Ipswich: First, 3s. 6d.; Second, 3s. 0d. King's Lynn: First, 3s. 0d.; Second, 2s. 9d. Lincoln: First, 3s. 6d. Llandilo: First, 3s. 9d.; Second, 3s. 6d. Newport (Mon.): First, 3s. 6d.; Second, 3s. 3d. Norwich: First, 3s. 0d. Oswestry: First, 3s. 2d.; Second, 2s. 11d. Penzance: First, 2s. 4d.; Second, 2s. 3d. Salisbury: First, 2s. 9d.; Second, 2s. 6d. Shrewsbury: First, 4s. 0d.; Second, 3s. 9d. Skipton: First, 3s. 6d. Taunton: First, 3s. 6d. Truro: First, 2s. 3d. York: First, 3s. 6d.; Second, 3s. 4d.

#### FOWLS.

Per lb.—Birmingham: First, 1s. 2d.; Second, 10d. Derby: First, \*4s. 6d.; Second, \*2s. 9d. Hereford: First, 1s. 3d. Ipswich: First, \*6s. 6d.; Second, \*4s. 6d. Lincoln: First, \*5s. 0d.; Second, \*3s. 6d. Llandilo: First, 1s. 7d.; Second,

1s. 1d. Newport (Mon.): First, 1s. 6d.; Second, 1s. 2d. Norwich: First, \*7s. 6d.; Second, \*5s. 0d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Truro: First, 1s. 2d. York: First, \*5s. 6d.; Second, \*4s. 6d.

## DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby: First, \*5s. 0d.; Second, \*4s. 9d. Hereford: First, 1s. 3d. Lincoln: First, \*6s. 0d.; Second, \*4s. 6d. Llandilo: First, 1s. 7d.; Second, 1s. 3d. Newport (Mon.): First, 1s. 5d. Shrewsbury: First, \*6s. 0d.; Second, 5s. 0d. York: First, \*7s. 0d.; Second, \*6s. 6d.

\* Per Head.

## Correspondence.

### LARGE OR SMALL UNITS.

To the Editor of "Eggs."

Dear Mr. Newman,—The letter by "Puzzled," seeking further light on the all-important matter of economic chicken rearing, has received your attention in the leader of November 22nd, but I feel the writer would like me to answer one or two points, since my article was referred to.

The 4,000 chickens reared annually on this farm are hatched during January and February, I put as many as 100 chickens in a Hover—in March and April never more than 70; the reason for this is obvious. I need a good number of early January and February chicks in order to select my stock cockerels—the March and April birds are usually to refill the large laying houses. The major portion of the work is done by myself and man. I am vain enough to think no one so good for the work as myself! It is a hard slog, as any conscientious man knows, but results justify the effort.

I have 40 rearing houses, which are sufficient for my needs. At six weeks or so, all but the best cockerels go to Leadenhall—the picked ones are put on free range—my pullets run on in the Colony Houses till they are shifted to their laying quarters. If I were purely commercial—and I was once upon a time, before the large flocks were thought of in this country—I should go back to my old way. In 12 ft. x 6 ft. Colony Houses, each divided to accommodate two Hovers, each with two attached runs, I could accommodate 4,800 chicks (160 per double house). My system being exactly as per my article of July 19th. Allowing for a loss of 800 from various causes, which is quite heavy enough, 2,000 pullets should be secured.

"Puzzled" might like to know that the stove and big brooder system are well known to me, and I have run them with varying success—but, oh; the bitter hopes and fears and wasted nerves and broken nights! However, I do not wish to influence anyone to give up a system they are successful with—it is to the other side I look. We must standardise rearing.

I would welcome any economic sound method of rearing, and if "Puzzled" can help, he would

considerably add to the prestige of the Industry. The first four months mean to an enterprising poultry farmer one continuous slog and hard, hard labour; those who try to evade it will be disappointed in the nett results. The tendency is to minimise labour beyond the practical limit, but my experience is that the more you put your back into the rearing season and accept its difficulties with a good grace, the fewer your problems are. If my article has influenced any to adopt my method (and judging from letters and visits received here, I think it has), then I am certain the results of the rearing season will repay any extra labour.

Yours very truly,

JOHN MEEKINGS.

Watford Poultry Farm,  
Watford.

4th December, 1922.

### AUSTRALORPS.

To the Editor of "Eggs."

Dear Sir,—I see by your remarks inserted after Mr. Taylor's letter of the 17th instant that you have not quite realised that Australian Black Orpingtons have been tested through an English Winter. You will therefore be interested to hear that 8 pullets, entered by Australorps Farms, Ltd., in the 1921-1923 Two-Year "Daily Mail" Laying Test, have laid 1,564 eggs in the 12 months from November 23rd, 1921. It is true that out of these there were 196 underweight; but this is accounted for by the fact that the pen they were bred from only arrived at the end of April, 1921, from Australia, and were then only eight months old. The Competition Pullets were not hatched till the end of May, 1921. Individual records in England of the mothers of these Competition birds run from 204 to 221 recorded from a week after their arrival. There is therefore no question that Australian Black Orpingtons have stood an English Winter Test in a thoroughly satisfactory manner.

It is, of course, hardly to be expected that, with the stock of these birds in this country as small as it is at present, they could compete as yet with long established breeds such as Wyandottes and Reds. Ample sufficiency of proof, however, is forthcoming that they will emulate here the wonderful records they have made in Australia. Such being the case and with the other great advantages possessed by this breed, such as colour, docility, and fitness for table purposes, it can confidently be predicted that the Australian Black Orpington will become in Europe, as it is in Australia, pre-eminent.

Yours faithfully,

FLORENCE JACKSON,

President of the Austral Orpington Club.

Street Court,  
Kingsland, Herefordshire.  
1st December, 1922.

We did not question of the ability of the Australorp to lay during an English winter, but whether it would be able to make the high records it has in Australia.—(Editor.)



## DRIED YEAST.

By Lieut.-Colonel F. W. HARDY.

It is with some diffidence that I write on the above subject, as in the Editorial of November 22nd appeared some very useful notes regarding this food stuff. However, I am such a convinced believer in its value, as a constituent of the mash, that I pen these few lines with special reference to its less generally-known characteristics and properties.

I. *Nature of Yeast.* Yeast is one of the lowest forms of vegetable life. It consists of an aggregation of round or oval cells, having an average diameter of about one-two thousand five hundredths (1/2500ths) of an inch. Each cell has a protoplasmic centre, surrounded by a membrane of cellulose. Propagation is by means of buds, which in due course drop off the parent cell, and grow to the size of the latter. Under favourable conditions of food, temperature, and so on, multiplication takes place with great rapidity.

Yeast contains several enzymes or ferments, of which the chief are:—

(1) Maltase, which converts malt-sugar to glucose.

(2) Invertase, which converts cane-sugar to glucose and fruit-sugar.

(3) Zymase, which converts glucose and fruit-sugar to alcohol and carbon-dioxide.

To prevent decomposition, yeast must be dried. This is effected by passing it in very thin layers between steam-heated rollers, with which it remains in contact for about half-a-minute. The dried product is scraped off the rollers by means of knives, and appears as crisp flakes of a buff or light brown colour; anything darker than this has probably been over-heated. For dry mash feeding this should be ground to a fine meal at the factory, in order to prevent the birds from picking out the flakes; it also renders it more easy of digestion. In the above process the enzymes of yeast are destroyed.

II. *Composition of Dried Yeast.* An average analysis is as follows:—

Albuminoids .....	45.94	Albuminoid ratio 1 to 0.85
Oil .....	0.60	
Carbohydrates ...	86.22	Total food units: 158.
Fibre .....	0.08	
Mineral Matter ...	8.38	
Moisture .....	8.73	
	100.	

The Albuminoids are highly digestible, and of the, approximately, 46 per cent. present, 35 consist of Albumen, 9 of Gluten, and 2 of Peptone. The amount of fibre is practically negligible. There is a large percentage of mineral matter, the composition of which is as follows:—

	per cent.
Potash .....	39.8
Lime .....	.0
Magnesia .....	.0
Phosphoric-acid .....	53.9

The most striking feature about this is the great quantity of phosphoric acid. When all the potash, lime and magnesia present have been completely neutralised, there still remains 26 per cent. of free phosphoric acid—reckoned as phosphorus pentoxide. Now phosphoric acid does not exist as such in plant or animal tissues, but (1) as phosphates in combination with the above bases, potash, etc.; (2) as phosphoproteins, a group which includes casein and ovo-vitelin—the principal protein of the yolk—and (3) as certain fat-like bodies known as lipoids, of which lecithin, derived from a Greek word meaning yolk-of-egg, in which it is abundant, and from which it was originally prepared, is one of the best known. When, therefore, we find a large amount of phosphoric acid in the Ash, which cannot be neutralised by the bases present, we may be certain that some of it at any rate has been derived from (2) and (3) in the process of burning. Of the other ingredients, potash and magnesia are present in large amount. Both enter into the composition of the blood.

As regards moisture, it is only necessary to note that dried yeast will absorb a good deal, and soon loses its crispness, unless kept in fairly air-tight tins.

Dried yeast is very rich in Vitamine B., the most resistant of all to the effects of heat. This vitamine, which is essential both to the prevention and the cure of polyneuritis, is believed to increase the resistance of the body to microbial infections, and also to be necessary in the young for healthy growth, as well as the special growth factor Vitamine A.

Lastly, there is a bitter principle in yeast derived from the hop, which is both an appetizer and tonic. No wonder, therefore, that dried yeast should prove such a valuable addition to the mash.

It should not however, be given in too large amount. The expression, "You can't have too much of a good thing" does not apply to foodstuffs. Personally, I use 5 per cent., together with 5 per cent. of fish meal, and the same amount of dried separated milk, and find this makes a good and easily digestible protein ration, which gives very satisfactory results. No description of yeast products would be complete without some reference to Marmite. This is a proprietary article, and a concentrated extract. I do not know the details of its preparation, but probably, in the first instance, the yeast is evaporated *in vacuo*, without much heat. Under this procedure the yeast cells would be ultimately destroyed, whilst the enzymes would not be affected. The latter would turn upon their former employers—the yeast cells—and rend them into simpler products. Yeast is then said to be "Autolysed," which we may translate as "self-digested." When Marmite is mixed with water in about a 1 per cent. solution, the fowls drink it greedily, but this is a very wasteful method of giving such an expensive food, as anyone who has observed fowls drinking will acknowledge. It is suitable for use in wet mash, but not in dry. Dried yeast itself is a very concentrated food, containing hardly any indigestible matter. Until Marmite becomes a good deal cheaper, I see no reason for abandoning the former. It should, of course, be purchased from firms of repute, with a guarantee that it has not been extracted, and where adequate means of storing are not available, it should not be ordered in large quantities.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

Wyandottes & W. Leghorns.

Stamina—Fecundity—Type.

BOUGHTON via NORWICH.

Rev. F. KENNEN, S.P.B.A.,  
Lengborough, Glos.

White Leghorns, Special Pen. Hens from  
m's 273-250 eggs. Sire's Dam, 256 eggs in  
pullet year.  
Pullets No. 50, winner of Special and 1st  
rise, Sept. 9th, 1922. Pen No. 1, headed  
Male from 250-240s. hen (Latham). Pen  
No. 2, later hatched, but with special for-  
ward male. Orders now taken for Sittings,  
ay Olds, and Early Pullets and Cockerels.  
Prices and Records given on application.

### Miss HARDMAN,

Member S.P.B.A. and N.U.P.S.,  
WYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

### F. A. HULME,

Heathfield Commercial Egg Farm,  
HEATHFIELD, SUSSEX.  
WHITE LEGHORNS.

Large Flock. Egg average over 180, mated  
to FRANK SNOWDEN (direct). Cockerels  
from 240-egg dams.

Hatching Eggs, Cockerels, Breeding Hens,  
Pullets.

P. N. SHELLEY S.P.B.A. and  
N.U.P.S.

Breeder of Utility Trap-nested

RHODE ISLAND REDS,

222 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

### FRAMLINGHAM.

Over 25 acres of exposed Grass Land.  
Speciality, White Wyandottes (Tom Barron)  
only birds that have laid 200 eggs in pullet  
year and over 60 in second winter, bred  
from. Also White Leghorns (Barron's) and  
L.I.R.'s (Golden's). Eggs, 10/6; Chicks, £1  
per doz.

White Wyandotte Cockerels, January, 1922,  
from hens with over 60 eggs in third winter  
from £1 each. White Leghorns, 15s.

Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

Crofts' Poultry Farm, Corbridge,  
Northumberland (R. Harland, S.P.B.A.).  
WHITE LEGHORNS.

HENS (1920/1), direct from Wm. Cook and  
sons, St. Mary Cray, Kent. hatched from  
79-282 egg hens, mated to cockerels from  
96 to 296 egg hens. 1921 hens averaged  
over 201 eggs in pullet year. COCKERELS  
direct from Mr. Frank Snowden, hatched  
from 260-270 egg hens, mated to cockerels  
from 282 and 284 egg hens. (Brother of pens  
a "Daily Mail" and Harper-Adams' tests).  
Eggs for Hatching from above stock, 10/6  
per 15; 50/- per 100. Day-old Chicks, 21/- per  
dozen.

### WHITE WYANDOTTES.

L. WILLIAMS.  
Easton Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS.

### G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.  
WHITE LEGHORNS.  
LIGHT SUSSEX.

A Few Pullets for Sale in each strain.  
Inspection Invited.

MILL VIEW POULTRY FARM,

TENGERDEN, KENT

Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE,  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks,  
Orders for Eggs and Day-Old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

### Miss N. B. MADDISON,

S.P.B.A., N.U.P.S.,  
Dane Hill, Sussex.

### RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

EGGS & DAY-OLD CHICKS now being BOOKED  
All Trap-Nested Pedigree Utility Stock.

### QUAKER BROOK POULTRY FARM,

### WHITE LEGHORNS

### WHITE WYANDOTTES

HOGHTON nr. PRESTON

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I. Reds (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

### R. M. THORBURN, M.S.P.B.A.

The Kirk House, Traquair, Innerleithen.

Highest Class Utility  
WHITE WYANDOTTES.  
ANCONAS.

Hardy Stock, bred and reared among the  
Hills of the Scottish Border.

Trap-Nests Used Throughout.

Settings: 10/6 for 15 Eggs, Carriage Paid.

A Few Selected 1922 Cockerels, 15/- each.

### Miss ARGLES.

DAY-OLD CHICKS, bred from my famous  
White Wyandottes.  
Twice top score, once third in all Ireland  
Laying Test in four years.  
White Leghorns, Miss Edwards' splendid  
Laying Strain.

Cross-bred DAY-OLD PULLETS. Book now.

Anstey Poultry Farm, ALTON, HANTS.

Balsham Manor Farm. Partners: H. J.  
Bingley and A. W. McKenny Hughes. Creve  
Coeurs and Houdans, from 20/- doz. Newly-  
imported breeds with a future. Book now.  
Noires du Berry and Gatinaises. Sittings,  
20s. doz. White Wyandottes, Black Wyand-  
ottes, White Leghorns, Silkie Wyandottes  
Crosses, from 10/- doz. Agents for one of the  
largest poultry farms in France, we can  
obtain Black, White, and Grey La Bresse,  
Salmon Faverolle (Tete D'Hibou), La  
Fleche, and all other French breeds. Send  
for illustrated catalogues to Balsham  
Manor Farm, Balsham, Cambridgeshire,  
and please mention "Eggs."

### The MISS S RANSFORD, White Leghorn Stud Farm

All Birds Trap-Nested.  
All Birds on Free Range.

PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.

Pedigree Cockerel List Now Ready.

Rev. C. E. CARNEGIE, S.P.B.A.,  
NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Sittings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Sittings, 10/-  
carriage paid.

### White Wyandottes only. TOM BARRON'S STRAIN.

Dam's Guaranteed Individual Records  
226 to 275 24 to 240s. eggs in pullet  
year, over 400 eggs in two years, sire's  
dam 286 eggs.

A few selected Cockerels from above  
Mating.

Prices 20/- to 32/6 Carriage Paid.

Mrs. BURGESS, S.P.B.A., N.U.P.S.,  
Woodside, Tenterden, KENT.

### G. RUDDLE,

The Poultry Farm, Tangmere, Chichester

Breeder of High Class Utility White  
Wyandottes. Awarded the medal presen-  
ted by the Poultry Club to the pen at the  
Harper-Adams' Laying Test, possessing the  
best breed characteristics. Also finished  
4th in the Laying Competition.

Hatching Eggs from 12/6 per doz.

Catalogue on Application.

### Moor House Poultry Farm, TOTON, NOTTS.

High-Class Utility Poultry.

R.I.R.s (Measures), Wyandottes  
(Hunters), W. Leghorns (Warwick Rogers).

Orders Booked for Eggs and Day-Old Chicks  
A Few W.L. Cockerels, 10/- Each.

Proprietor: Mrs. LITCHFIELD, M.S.P.B.A.

### LIMES POULTRY FARM. TAKELY, ESSEX.

Stock Cockerels for Sale. R.I.E. (Boucher direct), White Leghorn (Barron Padman), Black Leghorn and Light Sussex. All with high records and sired by pedigree birds. 10s. to 25s. each, according to breed and records.

Pure Tom Barron's WHITE WYANDOTTE Cockerels, March bred, from hen with winter records of 60 upwards; 15s. each. Also REDS, ANCONAS, LIGHT SUSSEX.—Scott, Helmingham, Stowmarket.

**BUFF ORPINGTON COCKERELS,**  
From L2 hens, sired Thomas's cockerel, brother, world's record hen; grand, vigorous birds; 15s. each. — Wheatley, S.P.B.A., Barwood, Gloucester.

RHODE ISLAND RED Cockerels, April hatched; Bostock Smith direct; two guineas.—Mrs. Burnell Wedmore, Remenhall Hill, Henley-on-Thames.

RHODE ISLAND RED Cockerels, April hatched, Dr. Crowley direct; 12s. 6d.—Miss Cole, May Cottage Poultry Farm, White Hill, Crowborough, Sussex.

R.I.E. February Cockerels; Golden's strain; 15s. 6d.—Potton, S.P.B.A., Northview Poultry Farm, Canewdon.

### SALE OR EXCHANGE.

Cockerels, bred from valuable stock obtained from Boucher, Bostock Smith, Burgess, Eden, and Hunt. RHODE ISLAND RED, LIGHT SUSSEX, and BUFF ROCKS, March and April hatched; 15s. each, or will Exchange for 1921 BLACK LEGHORN Hens (trap-nested).—Janaway, Cherry Tree Poultry Farm, Sanderstead, Surrey.

### WYANDOTTES.

WHITE WYANDOTTE Cockerels. March hatched, from daughters of 262 and 268-egg hens, by cock grandson of "Lady Eclipse" (301 eggs); price 21s. each.—Mansell, Kingston Sturt, Thame.

Five well-developed March S.C. R.I.E.D Cockerels, Crowley, Crowley - Boucher; reared under hardest conditions; guaranteed, from exceptionally high winter laying hens of large brown eggs; 21s., 25s.—Marchant, Anmer, King's Lynn.

W. WYANDOTTE and W. LEGHORN Cockerels, March hatched, direct from Frank Snowdens, extra special pen No. 2, from Leghorn pen, were bred his American winners; Rhode Cockerel, February hatched from H. Paine's super pen; Australian Black Orpingtons, from Australorps Farm direct, from three guinea sitting; Hearson Coal Burning Brooder, 500 size; once used; cheap.—Frank Smith, East Peckham, Paddock Wood.

WHITE WYANDOTTE Cockerels, dam's records 200; March hatched; 21s. each.—Capt. Palmer, Marden, Kent.

### LIGHT SUSSEX ONLY.

All pens mated to sires, dam's records from 200 to 284. Eggs from £2 to £3 per 100. Chicks from £5 to £6 10s. per 100. Illustrated Catalogue sent on application.—O. Frederic Preston, S.P.B.A., N.U.P.S., Wildhern, Andover.

A few of very fine WHITE WYANDOTTE and WHITE LEGHORN Stock Cockerels (Barron); February and March; 20s. each. Approval.—Milestone Egg Farm, Patricbourne, Canterbury.

Three WHITE WYANDOTTE Cockerels; February hatched; Bostock Smith's Pen No. 1 direct; 30s. each, or exchange for three equally good strain.—Paddock, M.S.P.B.A., Bratton, Fleming, N. Devon.

### PEDIGREE WHITE LEGHORN COCKERELS.

20 Selected March hatched Bostock Smith's direct; price 10s. 6d.—12s. 6d.—Paddock, M.S.P.B.A., Bratton Fleming, N. Devon.

### EGGS AND CHICKS.

### WATLINGTON POULTRY FARM, OXON. DAY-OLD CHICKS.

We are now open to receive orders. W. Wyandottes, W. Leghorns, Rhode Island Reds (s.c.), W. Orpington. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £3.

### HATCHING EGGS.

Two year old WHITE LEGHORNS, mated 270-egg cockerels; 6s. dozen; 40s. hundred; carriage paid; order now for January onwards. — H. Chesterton, Chiddingly, Sussex.

### My Breeding Standards guarantee A SOUND INVESTMENT in

### HATCHING EGGS.

Trap-nest tested L2 Hens (big egg layers only), mated to Tested L2 Cocks and individual bred Cockerels. Reasonable prices. 10 per cent. reduction orders booked before January 1st. It will pay you to send NOW for FULL particulars. W. Wyandottes, W. Leghorns, Black Leghorns.—H. Rawlinson, Lynwood P.F., Horeham Road, Sussex.

LIGHT SUSSEX SITTINGS, from Hens of good type and prolific layers of large eggs; all trap-nested as Pullets, and now on free range; 8s. 6d. doz.—Capt. F. S. Pardoe, Bradley Agricultural School, Mitcheldean.

Five per cent. Reduction on orders booked now. Eggs and Chicks from registered pen. ANCONAS, LIGHT SUSSEX; also Day-Old Pullets. Prices reasonable. List Free.—Machin, M.S.P.B.A., 72, Watlands View, Porthill, Stoke-on-Trent.

### HATCHING EGGS AND DAY-OLDS.

WHITE LEGHORN and R.I. RED Eggs; 8s. Day-Olds, 16s. per dozen. Boxes, and carriage paid. Book now for delivery from January; first order for dozen eggs opened Tuesday morning post supplied free.—Miss M. Harrison, S.P.B.A., N.U.P.S., R.I.E.C., Claremont P.F., West Burton, Aygarth, Yorks.

### CHICKS! CHICKS! CHICKS!

Book now for delivery, January 2nd onwards. RHODE I. REDS (Golden's), WHITE WYANDOTTES (Barron's); 16s. dozen, carriage paid. Cash with order.—Sam Norrish, Utility Poultry Breeder, Hebden Bridge.

### F. CAREY-BOUCH.

ELMSFIELD POULTRY FARM,  
OTTINGE, Near CANTERBURY.

### FLOCK AVERAGE OVER 100

Specialises in WHITE LEGHORNS (O. Padman). Sittings from registered pen 15s.; Sittings from general pen, 12s. Average over 207 recorded eggs. Day-Old Chicks from registered pen, 30s. doz.; from general pen, 25s. doz. Order now.

### PEDIGREE CHICKS.

Ready January 28th. WHITE WYANDOTTES, RHODE ISLAND REDS, LIGHT SUSSEX; 20s. doz., carriage paid. Free high-class trap-nested Utility Poultry, Leghorns later.—A. Cole, S.P.B.A., Albert Road, St Austell, Cornwall.

### DAY-OLD CHICKS & BREEDING EGGS.

Pedigree, Trap-nested WHITE WYANDOTTES and WHITE LEGHORNS. Order booked.—Culver House Poultry Farm, Cheltenham, Devon.

Booking Orders, Eggs and Day-Old Chicks from 7s. 6d. doz.; L2 birds. Eggs guaranteed 20s. and over. Sires from 24oz. eggs. R.I. (Boucher), BARNEVELDERS, WHITE, BLACK LEGHORNS. Pen List free.—Clark, Leafmore, Liss, Hants.

### TURKEYS.

### WHITE AUSTRIAN TURKEYS.

Three Cockerels, April, 1922, hatch strong, healthy birds for sale.—Miss Bervie Fleet, Hants.

### HENS.

WHITE LEGHORN Hens, 1921. Padman good layers large eggs; 7s. each.—Hastings, Kingley Green, Haslemere.

BREEDING PENS (1921). Few L2 (Crowley); WHITE LEGHORN (Padman) and LIGHT SUSSEX for sale; 7s. 6d. to clear; splendid birds and egg records some laying.—Limes, Poultry Farm, Wey, Essex.

### DUCKS AND DRAKES.

50 April-May, 1922, FAWN and WHITE RUNNER Ducks, Upjohn strain; bred by 250-egg drakes; well grown birds; late or near laying; 12s. 6d. to 15s.—Woods, Uplands Poultry Farm, Bothafield, Berks.

Nye and Son offer Pedigree FAWN and WHITE RUNNER Ducks from their stock which produced World's Champion Laying 461 eggs in 408 days, etc.; four ducks or drake; 25 or offer. Inspection invited. Shoreham-by-Sea.

**FIRST IN BUFF ORPINGTONS.**

National Laying Test, 1,017 eggs in 44 weeks. Consecutive runs of 151 (record), 7, 108, in as many days. 1st, County Tilly Cup, Winchester; 1st, Eltham; 1st and 3rd Ducks, 2nd Drakes, Tottenham. — Write for particulars, Captain Heseltine, Orpley.

**DUCKS and DRAKES.**—Buff Orpingtons, Ylesburys, Fawn and White Runners; 12s. l. each.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Danholme, Bradford.

**CHAMPION WHITE RUNNER** Drakes (Mour Shaw direct); 12s. 6d. each. — Sulkner, M.S.P.B.A., Thornton Hough, Irkhead.

Three pure-bred **AYLESBURY DRAKES**, 20 birds; April hatched; 15s. each. — F. Francis, Mount Pleasant, Thakeham, Essex.

**F. W. RUNNER DUCKS**, May, 1922, hatched; commenced laying; 9s. each; 1920 and 1921 Ducks; 6s. each.—Stratton, Lenn Heath, Maidstone.

**Monster 1922 AYLESBURY DRAKES**, early, mating; magnificent stock; sure satisfaction; 10s. 6d. each, carriage paid free.—Balmer, Stapleford Tawney, Romford.

For Sale, 40 trap-nested **FAWN** and **HITE RUNNER** Stock Ducks; hatched 12, with individual records from 183 to 5 in 12 months. Would divide into breeding pens of five or six; prices according to records. Suitable Drakes for mating to save from dams with records of 240 to 1, at 20s. each. Can also offer Six Drakes from 314-egg dam at 25s. each. Duck Traps for sale.—Particulars from Huxley, Tynomer P.F., Pontrhydyrun, near Newrt, Mon. (S.P.B.A.).

**DUNKERLEY, FREESTON, S.P.B.A.** has pure **WHITE RUNNER DUCKS** (Laylor's), 1922 hatched. Naturally reared grass and running water. Hardest possible open-air laying stock. Well grown and laying, or on point. 8s. each, £4 for a dozen picked birds. Carriage paid. Rubbish, as I have a reputation to maintain.—Higham Poultry Farm, Higham, or Colechester.

**RABBITS.**

Leister Spurgeon, Wistlers Wood, Woldham, Surrey, breeder, pedigree giant and Beverens. Youngsters for Sale.

**APPLIANCES.****GALVANISED CORN BINS.**

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 6d.; 4 cwt., 26s. 6d.; hinged lids; carriage paid. Raddon, Sheet Metal Works, Patrictroft, Leeds.

**FITTINGS** and Felts for egg boxes, any made; state wants; Egg or Chick boxes (cheap). Lists free.—Write, Hodges, Baldwin Terrace, Peter Street, Islington, London.

A Sample of the **MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramsden Heath, Billerica, Agent Planok Cold Brooder. Vacancy for Pupil.

**STANWORTH - SOOLE ANTHRACITE BROODER STOVE.** Four for Sale; in good condition, with seven feet of piping; £5 15s. singly, or £22 the four, f.o.r. Newbury. —Capt. R. A. Angier, Mousefield, Newbury, Berks.

Two **HEARSON COAL BURNING BROODER STOVES** (4-500 chicks); £5 each. Also 100-Egg Gloucester Incubator; £5. — Apply, F. A. Gorton, Kynance Compton, Winchester.

**WOGSBARNE "PUKKA" TRAP-NEST FRONT.**

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. For Ducks, 3s. 3d. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

**COME AND SEE IT AT OLYMPIA.**

One **HEBDITCH HOT-AIR INCUBATOR**, 390-eggs size; used one season, £12; and One **HEARSON HOT-WATER INCUBATOR**, 220-egg size, £15. Both complete in every respect, and perfect condition. Two **GLEVUM HOT-AIR 100-CHICK HOVERS**; excellent rearers; £2 each.—Dale Egg Farm, Lawshall, Bury St. Edmunds.

**TRAP-NEST FRONTS**, never fail; last life time; 24s. doz.; sold or money-back principle.—Bevan, Potters Heath, Welwyn, Herts.

**ROOFING FELTS**

"Superfelt," Ashwell, Herts.

**WIRE NETTING**

Best galvanised. British only; stamp Hst. —Superfelt, Ashwell, Herts.

**SUPERFELT**

Builds vermin and draught-proof houses without boards; stamp for samples; testimonials.—Superfelt, Ashwell, Herts.

**GLASS SUBSTITUTE**

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

**JUST WHAT WE WANT.**

to prevent wooden incubators absorbing the moisture from the eggs and causing dead-in-shell. Then use non-absorbing oils by giving one or two coats inside of incubators and egg trays every year; they are quick drying, harmless and disinfecting. 2s. 10d. per bottle, post free.—Only and always to be had from W. C. Searle, S.P.B.A., 22, Coutts Road, London, E.3.

**"ELECTRO-AUTOMATE"**

You can almost see the Vitamines in the egg hen using this lamp for testing; no batteries required; 50s. each, post paid.—Clifford de Kusel, 1, Stembridge Road, Anerley, S.E.20.

For Sale. Four **HOT-WATER INCUBATORS**, 144-egg size, new this year. £6 each, easily worth double.—River Poultry Farm, King's Lynn.

**RELIABLE**

**60-EGG HEARSON INCUBATOR**; perfect working order; £6. **60-EGG CYPHER**, hot-air; £3 10s.—Enquiries, Richardson and Ashton, Birley Spa P.F., Hackenthorpe, Sheffield.

**HEARSON INCUBATOR**, 120-egg, in perfect working order; £9 10s., carriage paid. —Apply, R. K. Lowrie, Walkersknowe, Jedburgh.

**STANWORTH - SOOLE ANTHRACITE BROODER STOVE**; excellent condition; only used six broods; £6, on rail.—Pye, Rydalls Egg Farm, Crawley Down, Sussex.

Tamlin 100-egg **SELF - SUPPORTING LAMP**; £4 10s. **PLANOK FIRELESS BROODER**, No. 1 size; never used; 18s. Both perfect order.—Wilson, Greenways, High Laver, Ongar, Essex.

**TWO H.C.B. UNIQUE HOVERS**, 250 size, new last season; £4 each, on rail. Installing larger brooders. — Teagles' Farm, Takeley, Essex.

For Sale. 30-egg **PHIPPS' PERFECTION INCUBATOR**, practically new; £3. Also "ENOTS" **COPPER KNAPSACK SPRAYER**, in good order; £2.—Steward, The Limes, Briston, Norfolk.

One **UNIQUE PATENT FUMELESS HOVER**, by H.C.B., 150 size; cost £4 10s. last season; complete and perfect splendid rearer; £2 15s.—At Parson's, Ashmead P.F., Ash, Surrey.

Satisfaction Guaranteed. **POULTRY HOUSES** and **APPLIANCES**, made to any design. Estimates Free.—Machin, M.S.P.B.A. 72, Watlands View, Porthill, Stoke-on-Trent.

**FOODS.****DERBYSHIRE LIMESTONE****GRIT.**

2s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

**POULTRY CHARCOAL**

DIRECT FROM

**THE MANUFACTURERS.**

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal.—J. B. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5.

**FINE SWEDES**, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.



MIXED GRIT. Oyster, Flint, Cockle, Crosshill; 5s. cwt., f.o.r.; 8s. 6d., carriage paid, under 140 miles. Samples free.—Midland Grit Co., Stourbridge.

## CHARCOAL FOR POULTRY.

Fine, Medium, or Coarse. Guaranteed Quality; 22s. cwt., carriage paid; Half, 12s. Also Cedar and Peat Moss Litters. Dried Flies, Grits, Meals, etc. Special Quotations bulk quantities. Enquiries invited. Samples free.—Bygrave and Co., Amwell, Ware.

## MISCELLANEOUS.

### EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Macconchy, Edenmore, Hook, Hants.

WHITE WYANDOTTE COCKERELS, March hatched, Rev. Birkett's strain.

### KHAKI-CAMPBELL DRAKES,

Pettiphar strain, March hatched; 15s. each. —Mr. Banks, Poultry Farm, Chalk Street, Rettendon Common, Essex.

Mrs. J. J. HOWARD, Deans Croft, West Winch Road, King's Lynn, Breeder of WHITE WYANDOTTES, W. LEGHORNS, and LIGHT SUSSEX. Utility strains only. Offers selected White Leghorn Cockerels, direct from Cooks, St. Mary Cray; March hatched; 21s. Also Pullets, May hatched; 10s. 6d. each. Orders now booked for 1923 eggs and Day-old Chicks.

R.I.B. Stock Birds (Measure's Gold Medal strains direct); beautiful colour; February hatched; 15s.; splendid testimonials; once a customer always a customer. — Ekins, N.U.P.S., N.S.P.C., Grange Poultry Farm, Wellingborough.

HOLYROOD POULTRY FARM, Hull Road, Cottingham, East Yorkshire. Telephone: 27 Cottingham. 1922, 7 awards, first, prize Cottingham Poultry Show, Sept. 21st. WHITE LEGHORNS, WHITE WYANDOTTES. Pure-bred Utility Birds. A limited number of Cockerels, March hatched; splendid birds; good type and stamina. Now booking order for Hatching Eggs and Day-old Chicks at Reduced Prices to suit the times.—M.S.P.B.A.

CLIFFORD DE KUSEL, Poultry Consultant. Farm Visited. Reasonable charges. —1, Stembridge Road, Anerley, S.E.20.

Seven WHITE WYANDOTTE Cockerels (Barron); 10s. 6d. each; from dams of over 200 eggs. Also six WHITE INDIAN RUNNER Drakes (Shaw); 10s. 6d. each, carriage paid.—A. Denby Wilkinson, Craven Cottage, Upwell, near Wisbech.

## ANTI-DIPHTHERIC SERUM.

Prepared by Biological Institute Murieux (ex-assistant Pasteur Institute) cures and prevents Diphtheric Roup, Contagious Catarrh, Diphtheritis, Canker. Successfully tested in France by myself during three years' farming.—Full particulars from exclusive agent, M. McLaren, M.N.U.P.S., M.S.P.B.A., 185, Hlandside Lane, Welwyn Garden City, Herts.

Miss E. A. BAYNE, Specialist Breeder of Finest Quality Pedigree Utility WHITE WYANDOTTES; good early 1922 hatched Pullets may be booked for delivery end of January; 31s. 6d. each. A few fine Cockerels left; bred from tested parents; 35s., 42s., 63s.—The Chalet, Stockfield-on-Tyne.

Two 1920 ANCONA Cocks; cost two guineas; Darracott direct last year; 20s. each. 1921 Pullets, Wilson, Hurts, direct; 6s. 6d. each. 1922 Pullets, same, 8s. 6d. each. —Mrs. Brooks, Rushton, Cotebrook, Tarporeley.

## BREEDING PENS.

BREEDING PENS. Eight Light Sussex Hens and Brown Leghorn Cockerel; eight trap-nested White Wyandotte Hens and Brown Leghorn or E.I.R. Cockerel, as preferred. Also Stock Embden Ganders and Geese.—Mrs. Wilson, M.S.P.B.A., Minorca Farm, Denholme, Bradford.

WHITE WYANDOTTE BREEDING PEN Eight Hens and unrelated Cook. Cam's strain; price six guineas, worth 10 guineas. —Ellinger, Sherbrooke, New Milton, Hants.

RHODE ISLAND REDS for Sale. Stock Cockerels from 21s. each; Pullets, from 15s. each.—Miss Howson, Borrowdale, Stockfield-on-Tyne.

When you want English or American Poultry Books try—Foster, 48, Blackwall Buildings, Whitechapel, London.

## PARTNERSHIPS.

Advertiser, M.S.P.B.A., with well-stocked Pedigree Poultry Farm in Devon, requires Partner; £300-£500 capital, with a view to extending same. Splendid opportunity for keen person.—Box 201, "Eggs," 94, Farncombe Street, London, S.E.16.

Gentleman Required by another as Partner in Poultry Farm (going concern); capital required to extend. Fuller particulars on application.—Box 202, "Eggs," 94, Farncombe Street, London, S.E.16.

## PUPILS.

VACANCY for Two Lady Pupils, with English Poultry Farm abroad, commencing January 1st. Opportunities given to visit Continental Exhibitions and learn French; moderate tuition and living expenses.—Box 199, "Eggs," 94, Farncombe Street, London, S.E.16.

Vacancies for PUPILS, resident or non-resident, on Modern Utility Poultry Farm. Moderate terms. References.—Carlton-Williams, Jack o' Dandy, Eastbourne.

## FARMS FOR SALE.

SMALL POULTRY FARM (55 miles from London), 13 acres, 400 head; nice house, nine rooms; on bus route; 5 minutes from station (main line), telephone, telegraph, P.O. — Box 195, "Eggs," 94, Farncombe Street, London, S.E.16.

FREEHOLD DAIRY and POULTRY FARM FOR SALE, situated near Farnham, 10 acres, modernised six-roomed house, with Shippens, and Piggeries; also a good supply. Price £300. Possession from 31st, 1923. Stock of Poultry for immediate sale of all products at low prices.—Apply, Box 189, "Eggs," 94, Farncombe Street, London, S.E.16.

## BUNGALOW FOR SALE.

For Sale, ARTISTIC BUNGALOW, Hampshire; eight acres; suitable pig and poultry farm; adjoining station, price £1,850.—Box 198, "Eggs," 94, Farncombe Street, London, S.E.16.

## WANTED. APPLIANCE

WANTED, 120 or 175 BUCKEYE INCUBATOR; recent pattern; perfect order. Particulars and price to Parsons, Ashmead & Ash, Surrey.

## MISCELLANEOUS.

Wanted, year old BLACK LEGHORN also year old LIGHT SUSSEX. — War Mengham House, Hayling Island.

## SITUATION VACANT.

Wanted, immediately, a highly educated Scientific Poultry Farmer, to take over pedigree poultry farm of 400 birds, and develop an intensive farm of 2,000 birds. Apply, stating full particulars to Box 200, "Eggs," 94, Farncombe Street, London, S.E.16.

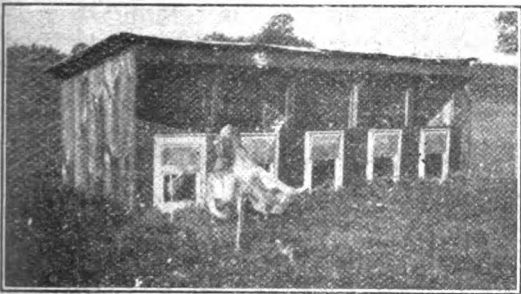
## Force of Habit

Successful people advertise by force of habit—having learnt the force of advertising.

## "EGGS" CLASSIFIED ADVERTISEMENTS.

prove the power of Publicity in the poultry world.

THE "DALE-VITA" DUCK RECORDING HOUSE.



BUFF ORPINGTON and  
KHAKI CAMPBELL } DUCKS.

The Result of Experience, Tested and Proved.  
Constructed of Best Materials by Skilled Joiners.

PRICE 3½ GUINEAS.

Complete, fitted with VITA Trap-fronts. Carr. paid.

DALE DUCK FARM,  
DIBDEN, HANTS.

NO MORE RESTLESS NIGHTS!!

IF YOU USE THE

BUCKEYE EQUIPMENT

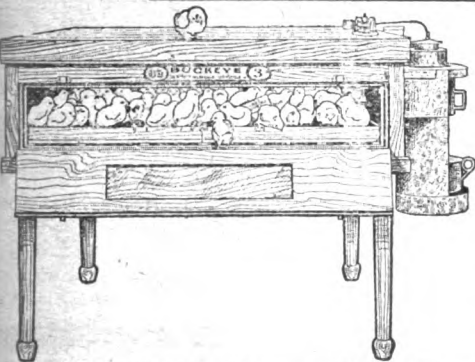
INCUBATORS—COAL BURNING BROODERS—OIL BROODERS.  
THE INCUBATORS ARE GUARANTEED

To hatch more and stronger chickens than any other; to operate satisfactorily in any temperature down to freezing; to require no artificial moisture and no attention to the regulator from the time the hatch is started until it is finished.

We are the Sole Distributing Agents for the United Kingdom.

W. B. FORDHAM & SONS, Ltd. (Dept. A) 36-40, YORK ROAD,  
KING'S CROSS, LONDON, N.1.

Complete Illustrated List upon application.



GOOD NEW TIMBER!

WE  
PAY CARRIAGE ON ALL ORDERS £1 and OVER.  
GIVE 5 per cent. DISCOUNT ON ORDERS £10 and OVER.  
GUARANTEE SATISFACTION OR REFUND YOUR MONEY  
GIVE PROMPT DESPATCH.

YOU  
CAN RELY UPON US SENDING WHAT YOU WANT, AS  
WE WANT TO PLEASE OUR CLIENTS, NOT OURSELVES.

Size.	Per 100 ft.	Size.	Per 100 ft.
	s. d.		s. d.
x 2 Battens	2 9	1 x 5 Boards	12 0
x 1 " "	2 9	x 6 " "	7 6
x 1 1/2 " "	4 0	x 6 " "	14 0
x 2 " "	6 0	4 inch Weatherboards	5 0
x 3 " "	8 0	5 inch " "	7 0
x 4 " "	12 6	6 inch " "	9 0
x 5 " "	16 0	x 4 P.T.G. Matching	5 6
x 6 " "	18 0	x 5 " "	8 6
x 7 " "	23 0	x 6 1/2 " "	11 0
x 8 " "	29 0	x 4 " "	8 0
x 9 " "	35 0	x 5 " "	9 6
x 10 " "	41 0	x 6 " "	11 0
Boards	5 0	x 6 P.T.G. Flooring	14 0
x 4 " "	10 0	x 5 " "	9 6
x 5 " "	6 6		

LARGE STOCKS ALWAYS ON HAND.  
CUT TO ANY LENGTH OR MULTIPLE.

**BROWN & JONES** Proprietors.  
W. BROWN,  
J. H. IVENS,  
TIMBER MERCHANTS (Dept. M.)  
MIDDLE WHARF, BAILY ST., CAMBERWELL,  
LONDON, S.E.5.

NO CONNECTION WITH ANY OTHER FIRM.



Foresight.

A few weeks after effecting an insurance through  
"EGGS" a Member had thirty-six birds stolen. His  
claim was duly admitted. But for this gentleman's  
foresight, he would have sustained a heavy loss, verb.  
sap.

Realising the necessity for insurance, we have made arrange-  
ments whereby our readers may have insurance on their live  
stock and plant effected at Lloyds at the minimum trouble and  
expense to themselves. We shall be pleased to furnish proposal  
forms and rates of insurance on request.

Don't wait until you have a heavy loss from fire, theft, storms,  
violent death by accident, etc. Write us at once for full partic-  
ulars, rates of insurance, and proposal form, post free on applica-  
tion to the Advertisement Manager, "Eggs," 94, Farncombe  
Street, London, S.E.16.



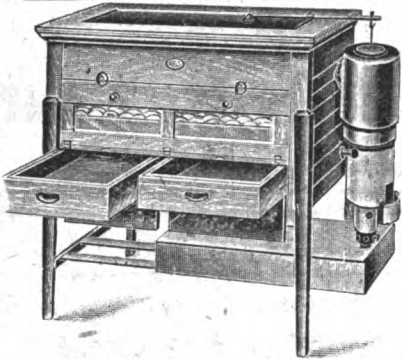
# HEBDITCH'S

## High-Class Poultry Appliances at Very Special Prices.

### The "HEBDITCH" INCUBATOR.

**£5 15 0**

40 Egg Size.



It will regulate the smallest change of temperature. No bother with moisture. The patent moisture device acts automatically. Chicks need no attention they drop automatically into the nursery.

The temperature is easily read, there is an electric light inside. No daily refilling of lamp. The large tank - lamp holds a store of oil. Heat evenly distributed - there are no cool corners. Very sensitive capsule.

Eggs.	PRICE.	Returnable Crates.	
40	£5 15 0	40 Eggs	14/6
70	6 15 0	70 "	15/6
100	7 15 0	100 "	16/6
160	8 10 0	160 "	18/6
260	11 10 0	260 "	23/6
390	15 0 0	390 "	27/-

Carriage Paid England and Wales. Prompt Despatch.

It is sent on Free Trial for Sixty Days. Money back if not satisfactory.

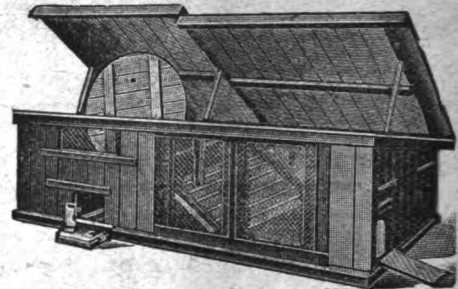
The Machine which Pulls Off the Big Hatches.

### The "LORNA DOONE" FOSTER MOTHER.

**£3 18 0**

70 Chick Size.

The "Lorna Doone" makes chick-rearing a real pleasure, and crowns your efforts with success. It will rear every chick to healthy maturity.



Send for the Free Catalogue. It tells you all about this wonderful machine.

Carriage Paid England and Wales. Prompt Despatch.

No. 1 is 4ft. long, 2ft. wide. No. 2 is 6ft. long, 3ft. wide.  
For 70 Chicks. **£3 18 0** For 100 Chicks **£5 12 6**  
it costs it costs

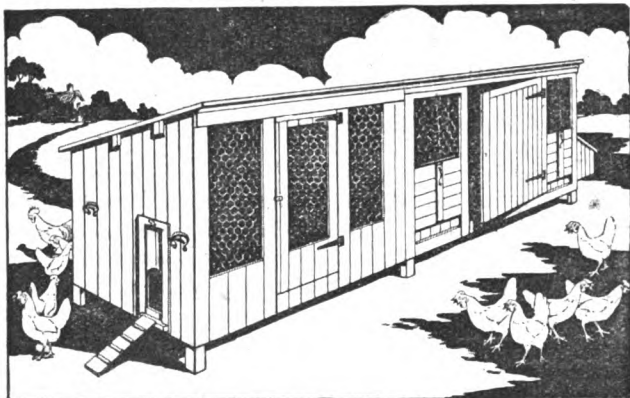
Painted two coats good oil paint, and roof covered with good stout felt.

Any Poultry House pickled by immersing in Preserolium at an extra cost of 1/- in the £.

### The "LAURETTA"

PRICE:

**£6 17 6**



Size 12ft. long, 4ft. wide, 5ft. high from the ground.

Made of 3in. best Swedish red deal boards, tongued, grooved, and V-jointed. It has a partition dividing the roost from the covered run, and is provided with nest-boxes two strong and well-hinged doors, press-lock and key, two sliding shutters, hen-ladder, two strong perches, and four handles for lifting. No extra charge for floor. If without nest boxes £6 5s. 6d. Carriage paid England and Wales. Immediate despatch.

### The "EXCELSIOR."

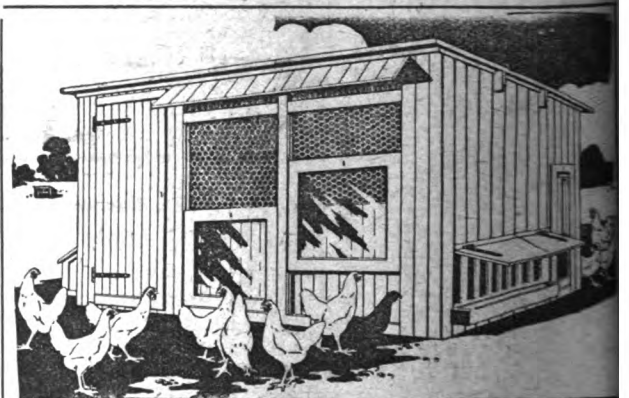
PRICE:

No. 1.

No. 2.

**£7 8 0**

**£9 15 6**



A most popular semi-intensive House of which we sell large numbers. Made of 3in. best Swedish red deal boards, which are tongued and grooved and V-jointed. It is provided with wide dropping board, which keeps the house clean for the scratching litter. No. 1 is 9 ft. long, 5 ft. wide, 5 ft. 6 in. high. No. 2 is 12 ft. long, 6 ft. wide, 5 ft. 8 in. high. No. 1 has two glass windows. No. 2 has three glass windows.  
Floors: No. 1, 26/6 extra. No. 2, 39/- extra.

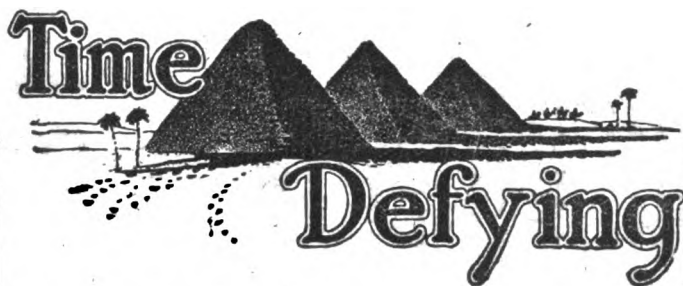
Carriage Paid England and Wales, and immediately despatched.

**HARRY HEBDITCH, Ltd.,** Desk J., THE POULTRY APPLIANCE WORKS,

In our Catalogues is listed practically everything the Poultry-keeper requires.

**Martock, Somerset.**

The Catalogue is sent Post Free.



**POULTRY - KEEPERS**, one and all, far and near acknowledge and respect the supremacy of

## CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

### Consistent Success

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

**WHITE LEGHORNS,**

**WHITE WYANDOTTES.**

**EDWARD CAM,**

**THE GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.**

PRICE  
LIST  
UPON  
REQUEST.

Satisfaction  
Guaranteed.

# SONIMOR

(WHITE LEGHORN)

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

LOOK OUT for OUR  
1923 PRICE LIST!!

BOOK your ORDERS for HATCHING  
EGGS and DAY-OLD CHICKS in  
GOOD TIME (Saves future worry).

Only a Few Specially Selected  
Cockerels from 6/- left.

Phone: — 6 Chaddleworth.      Grams: — "Sonimor, Leckhamstead."

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

## EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

### HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

## TOM BARRON'S

Catforth Poultry Farm, nr. Preston

**HIS**  
**WHITE WYANDOTTES**  
and **WHITE LEGHORNS**  
are unbeatable as layers of large eggs, and plenty of them.

Send 1d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

### WHO SERVES BEST,

*Please mention "EGGS" when replying to Advertisements.*

**"An Egg in Every Ounce."**

## CLOVER MEAL

### FOR POULTRY.

"Klovers" brand of Clover Meal is the best Clover Meal on the market, and is unequalled for egg production.

"Klovers" is the only Clover Meal used in the Laying Test of the "S.P.B.A." and "Daily Express" Competition.

**Price 12/- per cwt.  
Half-Lot 10/-**

*Special price for 5 cwt. lots.*

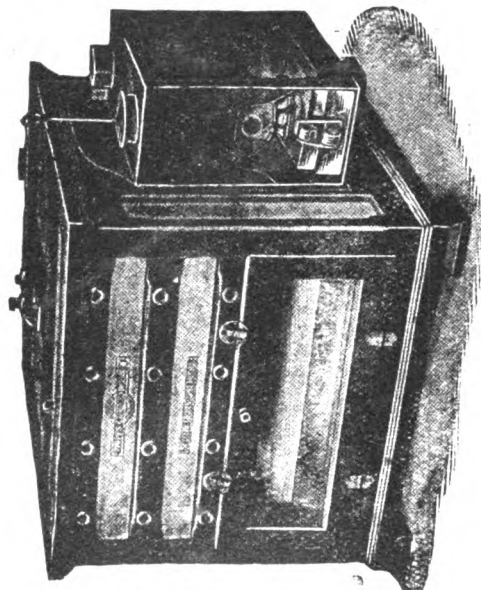
*Carriage Paid in England*

## ROSSLYN & Co.,

**30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.**



# Time has Proved It



Phipps' "PERFECTION" Incubator is without doubt the world's best hot-water hatcher. It has secured 95 Highest Awards at all the leading shows and for upwards of twenty-five years has been the leading hot-water machine on the market. Every feature in the "PERFECTION" Incubator is one of outstanding merit and a distinct advance in artificial hatching development.

Phipps' "PERFECTION" Incubator.

30 egg size	£6 15 0
60 "	8 10 0
100 "	10 0 0
200 "	15 0 0

Phipps' "PERFECTION" Incubator.  
Ironstone Hot-Water Model.

TIME proves merit. To-day "PHIPPS' " Incubators are the Standard—the leaders of all hatching machines. Leadership is not gained in a day, coming as it does from recognition of merit with the world as a jury, and each succeeding year has furnished added proof of the correctness of "PHIPPS' " principles and products.

"PHIPPS' " Incubators for 1923 have built into them years of practical experience, and time proved success in the hands of thousands of users in all parts of the world.

For years past the experts are agreed that "PHIPPS' " Incubators are the sure and safe way to poultry profits, and the future will bring still greater success—just watch the "PHIPPS' " record!

At the Grand International Poultry Show, at Olympia we displayed the very finest Incubators that the name of "PHIPPS' " has been associated with. They were absolutely the last word in Incubator Construction and design, and worthily added to the lustre of the "PHIPPS' " reputation. That is:—

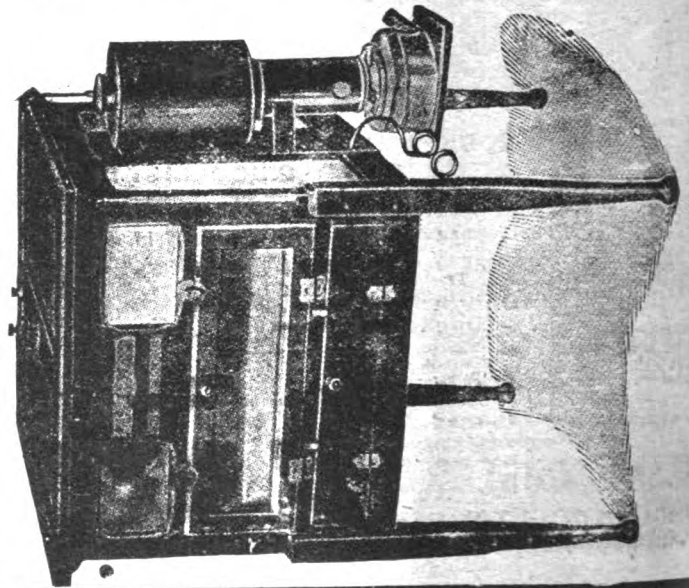
## Why "PHIPPS' " Leads.

*PHIPPS' " Incubators and Brooders can be bought on Easy Terms from J. G. GRAVES, Limited, Sheffield, or THE SERVICE CO., 292, High Holborn, London, W.C. If purchasing on these terms please write either firm direct.*

Phipps' "PREMIER" Incubator.

70 egg size	£6 15 0
110 "	7 15 0
160 "	8 10 0
260 "	11 10 0
400 "	15 0 0

The secret of the hatching success of the marvellous Phipps' "PREMIER" Incubator is built right into it—the dual heating device making it the only uniformly-heated hot-air machine on the market. The ventilator is perfect, and the regulation and ventilation are absolutely correct, so that the "PREMIER" will keep its heat almost as long as the hot-water model and the cost of operation is half that of any other machine on the market.



Phipps' "PREMIER" Incubator.  
Ironstone Hot-Air Model.

# A. E. W. PHIPPS,

Midland Works, No. 4,

HARBORNE, Birmingham

# MILKO MILK POWDER

is invaluable for all Poultry and Chicken Mashers, supersedes fish or meat meal, or any other animal matter. Get a supply of this Milk at once, and add to all your mashers. Recommended by all poultry experts, and used on many of the largest poultry farms in the country.

Milko Milk Powder is the best obtainable—therefore the Cheapest. All who mix their own foods should order NOW, as the demand is great. 1 cwt., 28/-; 5 cwt., £6 15s.; 10 cwt., £13; 1 ton, £25.

**MILKO FOOD CO.,**

**FLEET HOUSE, FLEET STREET, LONDON, E.C. 4.**

## COCKERELS.

W. Wyandottes, Wilts' Silver Medal; W. Leghorns, 5th, National Egg Laying Test, 1922; L. Sussex, Miss Dawson's Gold Medal, February and March hatched. Strong, Vigorous Birds.

All birds offered have been inoculated with latest American Serum as a preventative of disease.

Price, 32s. Each, carriage paid.

**Mrs. KNIGHT, S.P.B.A., N.U.P.S.**  
**ODSTOCK, SALISBURY.**

## "ZENITH TRAP-NEST"

As used by the Large Poultry Keepers. Also in the Premier Laying Competitions. FRONTS, 3/- each, carriage paid.

**WIGNALL,**

Poultry Appliance Builder,  
LONGTON, Near PRESTON.

## HIGH PEDIGREE COCKERELS

Individually Bred.

## WHITE LEGHORNS.

	Dam.	Sire's Dam.	Feb.	Mar.	Apr.
275 24oz. egg.					
Gentley Non-Such					
33 in 48 weeks at					
920 National.					
heaviest layer in					
the whole test	282 24oz.				
egg by 264	42/-	35/-	30/-		
474 24oz. egg					
two years	287 24oz.				
egg by 295	35/-	30/-	27/-		
461 24oz. egg					
two years	287 24oz.				
egg by 295	32/6	27/6	25/-		
4 24oz. egg					
egg by 264	25/-	20/-	15/-		
also S.C. Anconas and S.C. Rhode Island Reds.					

Exceptionally fine specimens, combining  
HIGH FECUNDITY with STAMINA.

TESTED COCKS, 1921, Trap-Nested  
HENS, and 1922 PULLETS for Disposal.

guarantee every Egg, Chick and Stock  
to be laid, hatched and reared on my  
farm, which is the leading Pedigree  
Trap-Nested Farm in North Yorks.

**Satisfaction Assured.**

**OWLAND COOKE, S.P.B.A.,**  
**N.U.P.S.,**  
**ELDHOLME POULTRY FARM**  
**KIRBYMOORSIDE, YORKS.**

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

Fertile Eggs, 7/6 doz.; 55/-, 100.

Free Range Cockerels and Drakes, 15/-.  
Hundreds sold last season.

1921 Hens, 10/-, 1922 Ancona Pullets only  
10/- each.

Breeds kept: Langshans, Minorcas, Fave-  
rolles, Houdans, Anconas, Campines, Wyandottes, Light and Speckled Sussex, R.I.R.  
Brd. Rks., Buff and Brd. Rks., Bl. W. and  
Brn. Leghorns, Buff and White Orpingtons,  
Aylesburys, Khaki-C's, Buff Orpingtons,  
and Runners (both colours).

**Wilson's Poultry and Duck Meal.**  
**PRICE REDUCED.**

£16 ton. 17s. cwt., f.o.r. Bags free. Cash with order.  
Carriage Paid. Price and Sample Post  
Free.

**JOHN C. BANNISTER & CO., Ltd.,**  
**Easingwold, YORK.**

"UP-TO-DATE"

**BOXES**

(Wooden).

For EGGS  
and Chicks  
are Second  
to none and  
have been

Officially passed by all Railway Com-  
panies, and are guaranteed to comply  
with their regulations.

Illustrated List Free.  
Special Discount to S.P.B.A. Members.

**W. & T. MARKHAM, S.P.B.A.**  
(Dept. A.),  
QUENIBOROUGH, LEICESTER.

**BEAUTY — with — UTILITY.**

Gonville Bungalow Poultry Farm, Burstow,  
HORLEY, SURREY.

**J. S. FENWICK, P.C., N.U.P.S., S.P.B.A.**  
Member of Poultry Club Utility Committee.  
Breeder and Successful Exhibitor of High-  
Class Utility Poultry.

White Wyandottes. Black La Bresse.  
Light Sussex. White La Bresse.

Grey La Bresse.  
Also Exhibition Croad, Langshans and  
Black Sumatra Game.

Utility Breeding Stock, selected by W.  
Powell-Owen, Esq. Nearly all pens trap-  
nested. Second with Wyandottes, S.E.A.  
College, Eye Winter Laying Test, 1921-22.  
Over 200 prizes and awards in 15 months at  
all the Leading Shows.

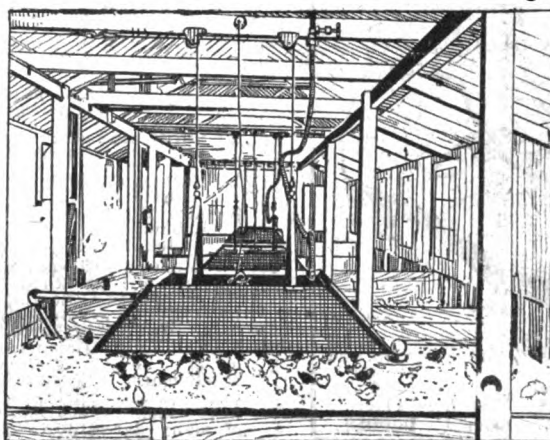
Poultry Club Utility Challenge Cup won  
four times, also Silver and Bronze Medals.  
Handsome Illustrated Catalogue free on  
application in mid-December.

Sitting of Eggs, Day-old Chicks, and a  
Limited Number of Stock Birds for Sale.

# THE PURLEY BROODER

**OLYMPIA  
STANDS**

**149 & 150**



**OLYMPIA  
STANDS**

**149 & 150**

The Scientific Solution of the Poultry  
— Farmer's Greatest Problem —

WRITE FOR ILLUSTRATED PAMPHLET TO

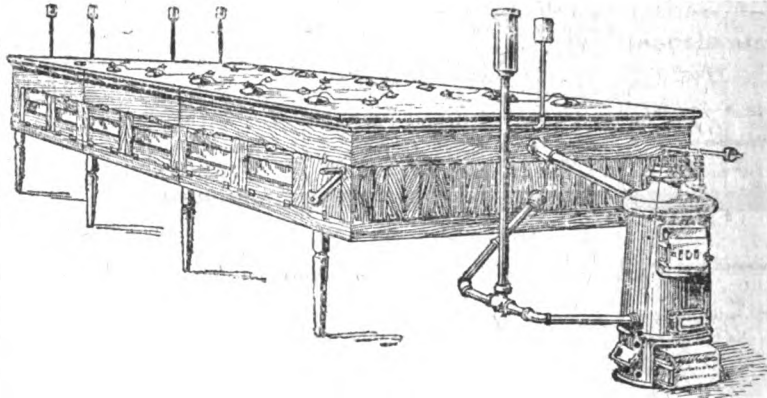
**RICHARD CRITTALL & CO., LTD.,**  
43, BLOOMSBURY SQUARE, LONDON, W.C.1.

# STEPHENS' GLEVUM MAMMOTH INCUBATORS.

If you are hatching in large quantities, you cannot do better than install one of these magnificent Incubators.

They are great fuel and labour savers, the cost of fuel working out at about 9d. per 150 eggs.

These machines have met with unqualified success, and are used by large Breeders all over the Country.



If you wish to make the coming season a successful one, install a Glevum Mammoth, and to ensure early delivery, order now, as we have a large number already booked.

Write us the approximate capacity of the incubator you need, and we will promptly supply all the facts. Our Large Illustrated Catalogue fully describes the incubator, also prices of various sizes.

CAPACITY - 1,200 TO 12,000 EGGS.

## HORACE W. STEPHENS, GLEVUM INCUBATOR WORKS, GLOUCESTER.

### Calor Clogs

YOU WANT COSY FEET

NOW.

THIS  
WARM LINED  
CLOG FOR  
**6/11**

Post Paid.

ALL  
SIZES  
SAME  
PRICE.



IRONS ON  
SOLES and  
HEELS  
1/- MORE.

You know "Calor" Clogs are good, and save your boots in the garden, and at all out-of-door or cold indoor work. Send for Catalogue of Boots and Clogs. Free for a P.C. New Low Price.

PATTERSON D 87. Overgate, DUNDEE.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches.  
1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/.

Trap-Nesting Record Books, 6/.

Hatching Record Books, 7/6 and 11/.

Stud Books for Fowls, 6/.

Incubator Records, 1/3 doz.; 7/ per 100.

Backyarder's Complete Record, 8d.  
Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKES, LEICESTER.

### LT. COL. A. G. THOMAS, Pedigree Poultry Farm, BURGESS HILL, SUSSEX

Offers Day-Old Chicks and Sitings, from very choice selected trap-nested stock. Orders now being booked.

GOOD AS THE BEST—BETTER THAN THE REST

Is the opinion of hundreds of satisfied Customers.

All Birds have more than passed S.P.B.A. Winter Test.

Foundation Stock of Males from the following: Miss E. D. Kitchen, E. C. B. Boucher, Stephen Hicks, W. Cook and Son, Ellett, Lord Dewar, G. B. Metcalfe, Rev. Birkett, E. P. Johnson (late President of "Eggs").

BREEDS KEPT.—S.c. R.I. Reds (Cockerels 1st and British Rhode Island Red Club Silver Spoon, Hastings); ...Pullets (1st, Chelmsford); White Wyandottes, Black and White Leghorns, Light Sussex; Barnevelders (imported by aeroplane direct from Holland, Van Heek-Middleman). There is going to be a boom in the last-named breed, and I must say I have taken a great fancy to them. Layers of many dark brown eggs. Very pretty Birds. Price Lists Free.

Sittings from 10/6 to 21/- per doz.  
Chicks Double.

FARM APPROVED for Training of Pupils by Ministry of Agriculture.

Vacancy One Gentleman Pupil, Jan. 25th.

MANY TESTIMONIALS.

**Exporter, Member Poultry Club,**  
B.R.I.R.C., S.P.B.A.

### MINERAL SALTS

A High-grade Corrective, embodying Laxative and Valuable Iron Tonic Properties, which should be used regularly, either in the mash or drinking water twice a week. To assist recovery from the moult and toning up the system it has no equal.

In 2/6 & 3/9 Patent Air-tight Tins  
Carriage Paid, with full directions.

The Cost next to nothing—  
**LESS THAN A FARTHING for 4 BIRDS**

Price List of all Foods and Samples Free.

**ALBION THORPE & SONS,**  
RYE, SUSSEX.

Makers of the Genuine.  
SUSSEX GROUND OATS.

### SPECIAL IRONMONGERY BARGAINS

Hinges, Butts, 1s.; Back Flaps, 1s. 6d.; Two-  
3s. 3d. per dozen pairs. Best 5in. Press  
Locks, 1s. 2d.; Strong Rim Locks, 1s. 6d.;  
Padlocks, 1s. each. Mixed Screws, about two  
gross packets, 1s. Hasps and Staples, 1s.  
4d.; Knobs, 10d.; Iron Buttons, 6d. per doz.  
Jack Chain, 1s. 6d. doz. yards. Best Bright  
Wire Nails, 1 1/2in., 1 3/4in., 2in., 2 1/2in., 3in.  
to 6in., 24s. cwt. Bolts and Nuts, 3s. gross.

**SURREY VALUE Co., Redhill.**



**1922 PULLETS.****OFFERS WANTED**

For

Splendid Strain of White  
Leghorns April Hatched.

1 to 40 for immediate disposal  
guaranteed not culled.

Approval willingly against cash or deposit.

Crates to be returned.

**MARKHAM, SONS & ALLOTT, S.P.B.A.**  
**QUENIBOROUGH, near LEICESTER.**

**Bred-to-Lay Strains**

OF

**W. WYANDOTTES,**

(BARRON.)

**W. LEGHORNS,**

(PADMAN.)

**Stock Cockerels and Breeding Hens**

Selected Strong Vigorous Cockerels.  
Autumn Delivery.

1920 and 1921 Hens.

Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
Free on request.

**Major HADEN, S.P.B.A.**

**METHERY HALL, SEDGLEY,  
STAFFS.**

**GRANULATED  
MOSS LITTER**

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 22lb., 2s. 6d.; 2 5s. 2d.;  
3 2s. 6d.; 6 12s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

22, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**WHITE LEGHORN FARM,  
WOODMANCOTT,  
MICHELDEVER, HANTS.**

Telegrams—  
"HOLDWAY,  
EAST STRATTON"

Hatching Eggs and  
Day-Outs in Season.

Won't you be in time for Hatching Eggs? Ah, yes, and book them now!

A thousand second and third season hens are kept, and will be mated to birds whose  
dams have recorded not less than 200 eggs and upwards to 256 eggs in their pullet year.

**Price 7/6 for 12.**

**60/- per 100.**

Good Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.

Bankers: Messrs. Barclay's Bank, Ltd., Basingstoke.

**W. MASON, M.S.P.B.A., P.C.,**

Littledale Poultry Farm, Halam,

NEAR SOUTHWELL, NOTTS.

Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock various ages,  
in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.), and Barred Rocks.

Inspection invited. Cash or Deposit. Tel.: 50Y3

QUALITY, PRICE, MAIN POINTS	GRAIN, MEAL, GRIT, Etc. Etc.
	DELIVERY.
SEND FOR SAMPLES AND PRICES	
JOHN W. BEVANS & Co., Tangier Rd., Portsmouth	

**SPECIAL LIME STONE GRIT.**

NONE GENUINE WITHOUT THIS.

TRADE MARK.

Takes the place of Oyster Shell and Flint Grits.  
(Reg.).

3s. 6d. per cwt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

Original Suppliers."

**E. A. PITTAM,**

"Malbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts.

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's It."

**Eggs Insured**

in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**"UTILITY" TRADE MARK POULTRY FOODS**

Real Bargains until Parcels Cleared.

Special Offers to S.P.B.A.

	per cwt.	s. d.
500 bags Pure White Wheat Meal	12	0
500 bags Best Sussex Ground Oats	15	0
1000 bags Fine Biscuit Meal	14	0
500 bags Best Quality Fish Meal	15	0
1000 bags Maize Gluten Meal	12	0
500 bags Maize Germ Meal	11	0
600 bags Heavy Clipped Oats	12	0
1000 bags Best Mixed Fowl Corn	12	0
500 bags Darl Seed, Red 10/1, White	11	0
250 bags Manitoba Feed Wheat	10	0
200 bags Light Wheat, Good Value	8	0
100 bags Vegetable Charcoal	14	0
500 bags Special Laying Meal, con- sisting of Biscuit, S.G.O., Wheat Meal, and Meat Meal	16	0

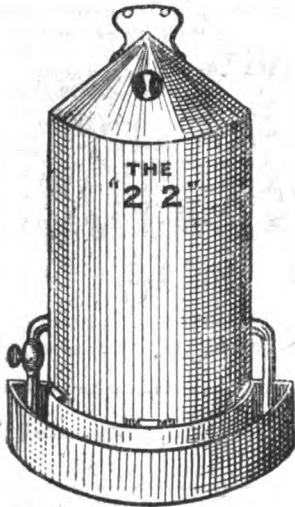
F.O.R. Liverpool. Bags In. Cash Terms.

**ARGYLE MILLS, Argyle St., LIVERPOOL.**

Phone: 2536 Royal. Telegrams: "Emphatic."  
Established 1868.



# THE "22" FOUNTAIN WITH DETACHABLE TROUGH.



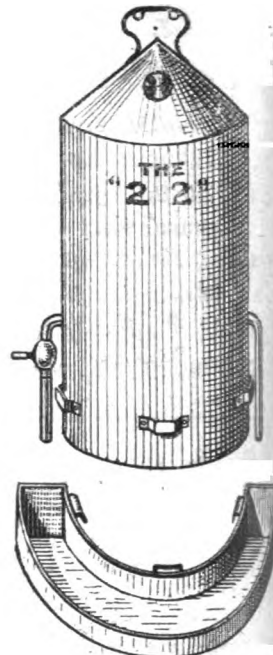
Made in ZINC ONLY,  
of Finest Workmanship  
with  
BRASS FITTINGS.

Nothing to get out of order.  
No Dirt can get into the  
Reservoir.  
No Mess or Worry.  
No Poultry House is com-  
ple'e without one

You can fill it from the Top.

You can carry it about without spilling water.

You can detach the trough for cleaning without  
moving the reservoir, and therefore it has a  
longer life.



Patent applied for.

**Special Prices if Ordered Direct are:—**

2 gallons, 15/-

1 Gallon, 13/-

$\frac{1}{2}$ -Gallon, 11/- Carriage Paid, From

**E. M. J. GRIFFITHS (Patentee) Brackendene Poultry Farm, FRODSHAM.**

KINDLY MENTION "EGGS."

## THESE ARE STRAINS OF QUALITY

Buff Rocks, Rhode Island Reds,  
White Wyandottes, White Leg-  
horns, Aylesbury and Runner  
Ducks.

**CAPT. R. G. BEATTIE**  
Riverside P.F. Totnes, S. DEVON.

TRAP-NESTED PEDIGREE STOCK.

**EGGS** MATING LIST FREE. **CHICKS**

**EGGS. CHICKS.**  
**H. LYNDEN LEMON,**  
M.P.C., N.U.P.S., S.P.B.A.,  
Lodge Poultry Farm, Devizes.

Now Booking Orders in advance for 1923.

W. LEGHORNS, LIGHT SUSSEX, W.  
WYANDOTTES,  
BLACK and WHITE LA BRESSE.

Awards at UTILITY SHOWS in 1922:  
TOTTENHAM, N.U.P.S.

YEovil.  
Including TROWBRIDGE,  
BRISTOL, N.U.P.S.  
NORTHUMBERLAND HEATH:  
Challenge Cup, 21 Firsts and Specials.

PULLETS FOR SALE.

## CRAWFORD & DOWELL

M.S.P.B.A., N.U.P.S.,

**CRAWDWELL POULTRY FARM,  
HUNGARTON, LEICESTER.**

Breeders of

HIGH CLASS WHITE LEGHORNS and  
RHODE ISLAND REDS  
(Crowley-Boucher).

Our Pen of White Leghorns won

FOURTEENTH POSITION

in the

"DAILY MAIL" £1,000 TEST.

Against 100 Pens, all Breeds, competing,  
and finished SEVENTH out of  
100 PENS of LEGHORNS.

(One Bird Died in the Tenth Month of the  
Test).

PEN AVERAGE: 214 FIRST GRADE EGGS.

Our White Leghorns have been bred for  
Thirty Years for LARGE EGGS.

HIGH PRODUCTION AND STAMINA.

We are now Booking Orders for Eggs for  
Hatching.

A Few First Class Cockerels (W.L. and  
R.I.R.) still left for disposal.

## Hodkinson, M.S.P.B.A., HOLYWELL, HUNTINGDONSHIRE,

Is now Booking Orders for delivery January  
to April, at 10/6 per dozen, from Specially  
Selected Pens of R.I.R., White Wyandottes,  
White and Black Leghorns.

Every hen a daughter of competition win-  
ners, and each pen is mated to Special  
Cockerels from Boucher's, Wilson Beattie &  
Padman's, direct imported and "Daily  
Mail" Champion Pens.

Further Particulars on Application.

Eggs from Flocks same Strains,  
6/- per doz., 45/- per 100.

All Breeding Pens, L2 Birds.

## The "MARKHAM" Trap-nest Front



The simplest on market. Never failing action  
Singles, 3/6. Sets of 3, 10/- Carr. Paid.  
W. & T. MARKHAM, S.P.B.A.,  
Dept. "A." QUENIBOROUGH, LEIC.

# E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**White Wyandottes, Rhode Island Reds, White Leghorns**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

## STOCK COCKERELS.

Bred from selected Hens with 2, 3, 4 and 5 years complete records by sires bred from proved L2 birds.

*Full Pedigree with every bird.*

Pullets all ages from 12/6.

Recorded Breeding Hens.

# E. JOHNSON,

THE POULTRY FARM,

SILVERDALE, STAFFS.

**WHITE LEGHORNS**

**WHITE WYANDOTTES**

**R.I. REDS and BUFF ROCKS**

**Selected Vigorous Cockerels from 17/6 to 50/-**

**1922 Pullets from 10/6**

**Hens with records of 200 to 240**

**Specially mated Breeding Pens at Reasonable Prices**

**Let me know your requirements.**

# Mrs. E. UPJOHN,

S.P.B.A., U.D.C., Etc.,

**Stapleford Pedigree Poultry and Duck Farm,**

**STAPLEFORD, CAMBS.**

Breeder of **Black Leghorns, Anconas, Wyandottes, and White and Fawn and White Indian Runner Ducks.**

claim to hold one of the **Finest Strains of Utility Ducks in England.**

**Hakes from 21 1s. to 23 3s. Breeding Pens, 23 3s. to 25 5s.**

**Hags from 12s. 6d. to 21 1s. per 15 eggs. Ducks 12 to Sitting.**

**Old Wyandotte Chicks due January 1st: 21 10s. per doz.**

**Pullets, in lay (mostly first-grade eggs), 25s. each.**

**production of these birds, Eleven Eggs in 15 days.**

**Lists Free.**

**Pupils Thoroughly Trained.**

**ARE YOU A MEMBER OF THE UTILITY DUCK CLUB? IF NOT. WHY NOT?**

# Eggs for Hatching,

**£3 10s. per 100 Carr. Paid.**

**INFERTILES REPLACED.**

**Now Ready for Despatch.**

**From Winter Laying Hens (1921) Hatched.**

**Rhode Island Reds,**

**CROWLEY-MEASURES.**

**White Wyandottes,**

**BARRON-CAM-METCALFE.**

**White Leghorns,**

**BARRON - CAM - N. H. BELL - BALDWIN.**

**Anconas.**

**REV. JOHN WILSON and "DAILY MAIL."**

**CHICKS BOOKED, £7 PER 100. ALSO**

**Silver Campines.**

**REV. LEWIS JONES.**

**EGGS, 12/6 PER DOZ. CHICKS, 30/- PER DOZ.**

**MATING LIST, 1923, ON APPLICATION.**

**A. ST. JOHN TREGURTHA, M.S.P.B.A.,**

**- MARCHWOOD, HANTS. -**

# COOKS' OF ORPINGTON

(under the direction of W. H. Cook, England's foremost breeder, judge and expert), only send out hardy and reliable Pedigree Stock on 4 Clear Days' Approval.

**UTILITY** Pullets for Shows and Laying Competitions or your garden offered, at prices to suit all requirements, from 21s. each. Also Topping Cockerels in all popular varieties from 25s.

Whatever you are wanting, write us; our free advice and help are at your disposal. If able, visit our Farm to select your own Stock. We can show you lots to interest you. Over 5,000 Utility Ducks and Poultry actually in stock. All get W. H. COOK'S personal attention and guarantee.

**Eggs for Sitting** guaranteed fertile from 400 pens, at 21s. per dozen.

Export orders to any part of the world at our risk.

**Full List, with Hints, Post Free.**

**W. H. COOK, LTD.,**  
"Cooks' Poultry Farm,"  
**ORPINGTON, KENT**



**Join the B.E.P. LTD**

**We sell the Eggs - You share the Profits**

**Join the BRITISH EGG PRODUCERS LTD**

2 LINDSEY ST. SMITHFIELD MARKET, E.C.1. and reap the benefit of co-operative marketing. Prospectus free on application.

A Small Picked Flock of WHITE WYANDOTTES, with undoubted Stamina and Unequally Consistency.

WINNERS OF AWARDS FOR SEVEN CONSECUTIVE YEARS AT HARPER-ADAMS' COLLEGE TRIALS.

AN ACHIEVEMENT NEVER ACCOMPLISHED BY ANY OTHER BREEDER.

Winners of Silver Medal, Harper-Adams' College, 1922.

Winners of First-Class Certificate, and finished fifth, Harper-Adams' College, 1921.

Winners of First-Class Certificate, and finished fourth, Harper-Adams' College, 1920. This pen of birds, No. 61, laid 171 ozs. over and above the average of 2 ozs. for every egg laid, and was considered by other competitors to be the best pen of Wyandottes in the Trials.

Single Pen 26. Winner of First-Class Certificate, and finished third in value, fourth in weight, with 260 eggs, Harper-Adams' College, 1920.

Single Pen 10. Winner of Second-Class Certificate, with 249 eggs in 44 weeks at Harper-Adams' College, 1919.

Winner of First-Class Certificate at Harper-Adams' College, 1918, with records up to 253.

Winner of First-Class Certificate at the National Laying Trial, Bentley, 1918.

Winners of Bronze Medals, Harper-Adams' College, 1917.

Pen 98. The World's Best by Test Wyandottes. Winners of Gold and Silver Medals, and Supreme Champions in the one and two years' Laying Trials at Harper-Adams' College, 1915-16-17. Six birds laid 1,513 eggs in 12 months, an average of 252 eggs per bird, and a total of 2,322 eggs in two years. This pen laid more eggs in two winter months than any other seven pens in the same section put together. Also Breeder and owner of the only pen of Wyandottes in the "Daily Mail" Trials that have not laid a Second Grade Egg since weight of egg was fixed at 2 ozs. Unfortunately, one bird died at the commencement of Test.

Reports show that my clients occupy prominent positions both in England and America.

A few Good Breeding Hens for Sale the last week in April. Also a few good Cockerels, for immediate delivery, all bred from individual hens with records over 220 eggs in 48 weeks ("Official"), and not less than 24oz. egg. Hen hatched and reared, and never had a minute's sickness in their whole life.

They are well matured, and just as fit as ripe plums.

For full particulars you can either come or write.

EDGAR WATSON,  
Gate House Farm, Earby, Near Colne, LANCS.

## MUSTARD FOR POULTRY.

Nature's Vegetable Tonic for Winter Months warrants the outlay by larger Egg Yield.

2 lb. 2/8, 4 lb. 4/4, 9 lb. 9/-, per Parcels Post. 36 lb. 25/-. 55 lb. 36/-. carriage paid by rail. Cash with order. "Poultrykeeping for the Million in the British Isles," free on request

**DOBBIE & CO.,**  
WAVERLEY WORKS, LEITH, N.B.



The  
**S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.  
1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudrwich,  
HORSHAM, SUSSEX.

## COCKERELS.

We still have a few magnificent, early hatched birds, in both White Wyandottes and White Leghorns, individually bred from high second hens, at

**21/- to 63.- Each.**

Also a few 1921 hatched White Leghorn Cockerels, full brothers to our Burnley Winners (Championship Section), at

**30/- to 50/- Each.**

All Stock Sent on Approval.

This Year's Successes include:—

1st at Burnley (Championship Section):  
White Leghorns.

2nd at Harper-Adams (Illuminated Section),  
White Leghorns.

2nd at National (White Wyandottes).

2nd at Midland (White Wyandottes).

7th at Harper-Adams (White Wyandottes).

## HATCHING EGGS AND DAY-OLD CHICKS

now being booked.

Price List and Further Particulars on application.

## S. & J. PARSONS,

The Poultry Farm, Musbury, Devon.

Try us for your WET AND DRY MASHES, made to your own requirements.

We offer the following:—

	per cwt.	s.	d.
NEWMAN'S POULTRY MASH	15	0	
MIDDS	11	0	
BRAN BROAD	11	6	
BRAN ORDINARY	8	6	
MAIZE GLUTEN FEED	12	6	
SUSSEX GROUND OATS	20	0	
CLOVER MEAL	18	6	
ENGLISH CLIPPED OATS	16	6	
Special Line Best MEAT MEAL	21	0	
GRANULATED CHARCOAL	20	0	

Everything for the Poultry Keeper kept in Stock.

Bags Free and Free on Rail. Cash with Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

## PROLONGING THE ECONOMIC LIFE OF THE HEN.

Can be fairly easily accomplished if the birds are fed on GOOD FOODS. PURE FOODS, SIMPLE FOODS.

As the following for instance:—

Newman's Laying Mash	15
Newman's Breeding Mash	15
Maize Germ Meal	14
Maize Gluten Meal	13
Maize Gluten Feed	13
Maize Meal	11
Kibbled Maize	12
Wheat	12
Clipped Oats	15
Broad Bran	9
Fine White Middlings	13
Ordinary Middlings	11
Sussex Oats	7
Limestone Grit	1
Cockle Shell	1
Peat Moss	1

Bags Free. Carriage Forward

Also "Nitrophos" and "Bycolla" Fish Meal, Meat, Biscuit, Clover, Alfalfa Meal, etc., etc.

**FRANK SHEARN & CO., Ltd.**  
**MIDSOMER NORTON, SOM.**  
'Phone 51.

Have you seen the bargains being offered in the classified advertisement section?

## STOCK COCKERELS.

We are now offering some extremely choice birds, bred from high record hens, and Tested L2 Sires. Reared Free Range.

White Wyandottes. Barron's strain, dam's record 245 24oz. eggs. Sire's dam 252 24oz. eggs, non-broody.

R.I. Reds. Crowley-Boucher strain. Dam's record 242 24oz. eggs; sire son of Boucher's Record Hen.

W. Leghorns. Cam's strain. Dam's record 255 24oz. eggs. Sire's dam 266 24oz. eggs. Price: One Guinea Each.

Khaki-Campbell Drakes. Best bred from Sisters to our Bentley Pen. Price 15/- each. A few choice Pullets in Reds and 'Dottes. from Tested L2 Hens. Just commencing laying. 21 Each.

All Carriage Paid. Fullest Approval. What others say: "The two cockerels I got from you last December turned out the best I have had for several years, and maintained full vigour and fitness right through the season, and have bred about 300 fine pullets."—Hugh Sowerby, 14/8/22.

G. R. PINDER, M.S.P.B.A., N.U.P.S.,  
Lindsey Poultry Farm, CARLTON, LOUTH.

**BARNEVELDER PULLETS:** Also Good Breeding Pens of 20-21 Bantams. Wyandottes.

**LAKENVELDER.** Sumatra, Polish. Pir mouth Rocks, and all other Varieties. Also all kinds of Water Fowl. Pheasants, White, Black Winged Blue and Specifier Pea Fowl, Partridges, etc. Send Threepence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success.

**FOR SALE.**—20 March hatched WHITE WYANDOTTE Cockerels, 20 Pullets, March hatched, commencing to lay. 15 1921 WHITE WYANDOTTE Hens, all through moult. The Cockerels and pullets are sired by a Cockerel bought direct from Bostock Smith mated to Cam's hens. 1922 Cockerels, 15/6 and 21/- each; Pullets, 21/- each; 1922 Hens, 10/- each. Sent on four day's approval on receipt of cash.

**E. PEEL, Embsay, Skipton, Yorks.**

**KHAKI CAMPBELL DUCKS.**—FIRST and GOLD MEDAL at the National Laying Test, 1921-22—1,188 Eggs.  
**BUFF ORPINGTON DUCKS.**—Our Pen is now Leading its Class at the National Laying Test, 1922-23.  
**PELLING PEDIGREE POULTRY FARM, HAYWARD'S HEATH.** Miss BARBARA RAYE (Managing Partner).

# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

**Corrugated**



**Roof Sheets.**

Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed  
PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

**The British Fibrocement Works, Ltd.**

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

Telephone ERITH 89.

London Office: Central House, Kingsway,  
Telephone: GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.

Telephone: CENTRAL 7292.

Also at Glasgow, Swansea, Dublin and Belfast.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.

Telephone: BRISTOL 272.

## "MULTEGG" Laying—Meals

to the progressive poultry keeper,  
they reach the highest standard of  
consistent quality and value.

ver Oil has proved such a wonderful  
tion to poultry foods that no up-to-  
poultry farmer can afford to ignore  
its use.

entirely new method only obtained  
exhaustive experiments, we have suc-  
in solving the difficulty of an  
actly uniform impregnation,  
article of our "MULTEGG" LAY-  
MEALS holds its correct quota of Cod  
Liver Oil.

"MULTEGG" Intensive Laying Meal	per cwt.
containing Alfalfa	22/-
"MULTEGG" Laying Meal	21/-
"MULTEGG" Dry Mash	19/-
AND GROUND OATS, guaranteed	
per cent. pure Oats, stone	
ground	20/-

Cash with Order. Bags free.  
Paid to nearest Railway Station,  
your door if within railway delivery  
Therefore your first cost is the last  
cost.

ing Pamphlet, Price List, and  
of all "MULTEGG" Specialities  
post free on application.  
Discount on all orders received  
through the S.P.B.A.

**SMITH & SON, S.P.B.A.,**  
Specialists in Poultry Foods,  
Queen Street Granaries,  
EL HEMPSTEAD, HERTS.

The value of Poultry can only be  
recognised when fed on properly pro-  
portioned food.

Therefore send to us to-day for Price  
List and Samples of the

## "WILLOW" POULTRY FOODS

Our Complete Laying Meal will stand  
any test for Purity.

Special Discount to S.P.B.A. Members.

Sole Agents for Scotland for  
Ibbotson's Poultry Appliances.

Note Address:—

**Falkirk Poultry House Co.,**

**FALKIRK and MILNATHORT.**

Telephone 76.

## R. LAVALLIN PUXLEY,

*Windyridge Egg Farm,*

**WOODCOTE, OXON.**

Now booking Sitings from finest trap-nested

**WHITE WYANDOTTES,**

Winter records: 40-90 (all 1.2) year flock  
average 192, large eggs; mated finest pedi-  
gree cockerels.

**BLACK LEGHORNS,**

Finest Selected Winter Layers (Ingles'  
strain), mated to superb males (Forges).

**From 10/- per 12. 37/6 per 50.**

Few Magnificent Cocks, Cockerels and  
Pullets for Sale.

N.B.—All my own stock to be reared from  
above pens.

Quotations for Quantities.

## ROBERT MILLER,

The Poultry Appliance Specialist  
And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

**At OLYMPIA, LONDON.**

**THE GREAT INTERNATIONAL SHOW,**

December 9-12. STAND 145.

Robert Miller's Houses,  
Incubators Brooders and Exchequer  
Leghorns, THE GREAT CENTRE OF  
ATTRACTION, awarded SILVER  
MEDAL (highest award), at the  
GREAT ROYAL LANCASHIRE SHOW,  
in September.

AGAINST ALL COMERS.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER, —**  
**DENNY, SCOTLAND.**

**JOHN GODFREY & Co, Ltd.,**

STAMFORD,

For Up-to-Date

**HOUSES and APPLIANCES.**

TRY US.

Known throughout the County as makers  
of the best quality only.

PRICES REASONABLE.

Satisfaction Assured. Catalogues Free.

## Rev. A. R. RUNNELS MOSS,

S.P.B.A., F.N.U.P.S.,

— SPECIALIST BREEDER —

1,000 Eggs, five years, all over 20zs.  
Others nearly as good and still like  
youngsters.

Our Stock Second to None.

Send for Catalogue, then Read, Mark,  
Learn, and decide to try our stock.

Sittings or Day-Olds.

White and Black Leghorns, White  
Wyandottes,

Rhode I. Reds, Khaki-Campbell Ducks.

Our Motto: "Persistence."

Stock Birds now ready.

## COURT HEY POULTRY FARM.

**Broad Green, Liverpool.**

High Class WHITE WYANDOTTES and  
WHITE LEGHORN Cockerels for Sale.  
Ready for Immediate Mating.

Guaranteed from our best pens. Hens with  
records up to 278, SIREs from 254, 268, 282  
DAMS.

PRICE: 30/- each from Pen.

40/- each from Individual Hens, with  
Pedigree Given.

LEGHORNS from Pen with Records

200 to 220 by 242 SIREs.

PRICE: 25/- Each.

From 220 to 242 Dams by 276 SIRE: 30/-  
Each.

Also from Individual Hens: 35/- Each.  
Only Limited Number. Please Order Early.

All Particulars from:—

J. BARGH, Manager.

Proprietors—J. BIBBY & SONS, Ltd.



# -a farthing a week for More Eggs!

Remarkable Natural Vegetable Product, supplies missing mineral salts, and maintains abundant health with doubled egg production. Costs only a farthing a week per hen. Use "SALUBRENE."

The valuable mineral and digestive elements of iron, calcium, potash, soda, etc., present in "SALUBRENE" supplies these vital constituents in digestible form.

## SALUBRENE

Use "SALUBRENE" for your poultry, and watch results. It is obtainable from your dealer in 6d. and 1s. 3d. packets, or we will send you a 7lb. bag for 6s. post free.

"SALUBRENE" is a simple organic product abounding in healthful and invigorating properties. It is NOT a spice, NOT a chemical preparation, DOES NOT FORCE. It adds essential mineral salts which promote health and increase laying capacity two-fold. "SALUBRENE" is now regularly used in the most successful Poultry Farms in the country.

Mention Name of Dealer when writing.

**JOHN BEHARRELL, LTD.,**  
118, WINCHESTER HOUSE, HIGH STREET, HULL.

BY  
YOU INSURE  
AND  
WHO LAY  
**EARLY**  
BOOKING  
SITTINGS  
BIRDS  
EGGS.  
FROM THE BEST STRAINS.

We are now Booking Orders for Sittings. Day-old Chicks and Ducklings for the coming season in the following Breeds:—Barnvelders, Light Sussex, Wyandottes, Rhode Island Reds, Anconas, Black and White Leghorns, Silver Campines, White Runners, Khaki-Campbell, etc.

Price List Free.

**The NORTH DEVON POULTRY FARM**  
Metherell Tower,  
BEAWORTHY, N. DEVON.

**NEWMAN & NORWOOD.**

**WHITE LEGHORN PULLETS  
FOR SALE.**

*Well-Bred Birds from L2 Stock.  
May Hatched.*

**12/6 Each.**

**Four Marks, Hants.**

PEDIGREE UTILITY.

STOCK COCKERELS AND PULLETS  
WHITE LEGHORNS, WHITE WYANDOTTES.

S.C. RHODE ISLAND REDS.

I have a grand lot of Utility Stock Cockerels, bred from high second hens, with excellent winter records.

1922 Pullets (Laying or on point of lay).  
1921 Hens with Individual Records.

All Stock is typical of its breed, and is sent carriage paid, and or seven days approval.

I am now booking orders for Eggs for Hatching and Day-Old Chicks.

Send for my Detailed Price List which gives full particulars.

**LINDSAY SCOTT,**

(Life Member and Fellow, N.U.P.S. and Member, S.P.B.A.).

THE WORLINGTON POULTRY FARM,  
MILDENHALL, SUFFOLK.

**NEWMAN & NORWOOD,**

FOUR MARKS, HANTS,

HAVE FOR SALE

**Pedigree Cockerels**

OF THE FOLLOWING BREEDS:

WHITE LEGHORN,  
WHITE LA BRESSE,  
RHODE ISLAND RED,  
CROAD LANGSHAN.

**Price 30/- to 42/- each.**

Walter Taylor, of Crouch Poultry Farm, Burnham-on-Crouch, writes:—

"Will you please let me know whether you have any White Leghorn and Rhode Island Red Cockerels for Sale. . . . . You have supplied me with some good White Leghorn Cockerels in the past, and I have had good results from them. . . . . sively for the year was 204 eggs each.

Yours faithfully,  
(Signed) WALTER TAYLOR."



as used on my:—

**Hampshire Poultry Farms,**

No. 1.—Dry Mash Specially Prepared for Chicks ... 28lbs. 5/- 9/6 18/-

No. 2.—Dry Mash Specially Prepared for Chicks at 10 weeks ... 4/9 9/- 17/-

No. 3.—Laying Mash ... 4/6 8/- 15/-  
The above can be fed as Wet Mash if desired.

No. 4.—Chick Feed ... 6/- 11/6 22/-

No. 5.—Chick Feed at 10 weeks 5/9 11/- 21/-

No. 1 and 2 Mashies Contain Extracts of Milk which render them Invaluable for Growing Chicks.

**Free on Rail.**

Quotations for Larger Amounts.

Telegrams:—Four Marks.

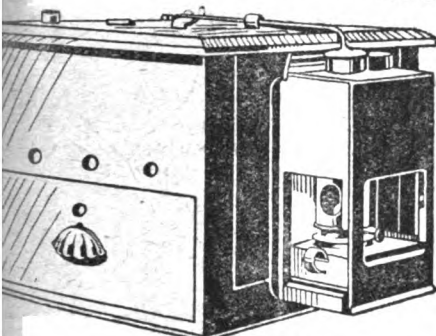
**P. V. NORWOOD, Four Marks, Hants.**

# Duck Hatching Extraordinary

From the C.A.S.H. SAFE INCUBATOR (Protected No. 23831).

RECENTLY (not being a Duck Breeder) PURCHASED RUNNER DUCK EGGS OVER 100 HUNDRED MILES AWAY, and after testing HATCHED 78 and 90 per cent., and at this time of the year.

TWO DUCKLINGS ONLY were helped out, out of most machines you have to help out 50 per cent. A machine caused a great sensation at the late Dairy Show, and some of our largest breeders pronounced it to be the most natural ever brought out. Why pay High Prices for Inferior Machines.



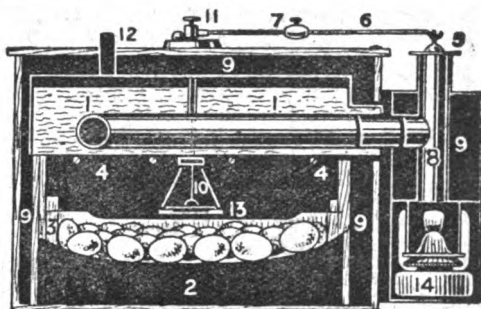
SHOWING EXTERIOR.

## Hot Water Tank Incubator,

MADE BY  
BEST TINSMITHS IN THE COUNTRY.

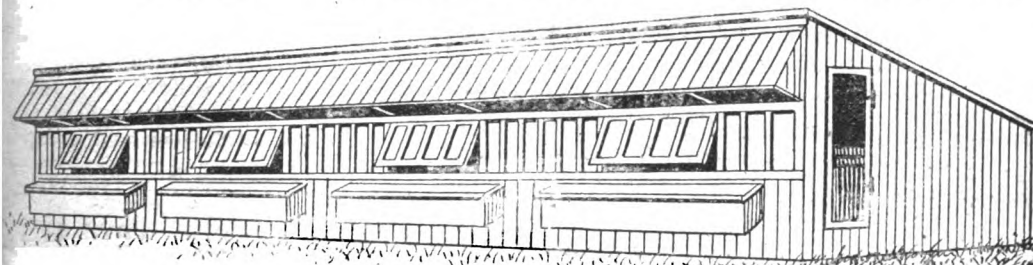
50 Hen Eggs £3 7s. 6d.; 25 Size, £2 10s. 0d.  
Carriage Paid.

A CLIENT WRITES:—  
"I selected your Safe Incubator, not on account of the low price, but because the principle appeals to me, and, theoretically, I consider it BEATS ALL I HAVE EVER HEARD OF."



SHOWING INTERIOR.

## THE "POPULAR" LAYING HOUSE.



## REDUCTIONS IN PRICES

But everything included as before.

1923 List Post Free

Long.	Wide.	Floor.	£ s. d.	£ s. d.
6ft.	10ft.	7ft.	14 5 0	3 6 6
10ft.	10ft.	7ft.	19 4 9	4 10 3
16ft.	10ft.	7ft.	27 1 6	7 12 0
20ft.	16ft.	7ft.	42 5 6	14 9 9
30ft.	16ft.	7ft.	62 2 6	20 3 9
40ft., as illustrated			82 3 6	26 2 6

Mr. Venner is a breeder of White Wyandottes.

Extras Included.  
Penetrating Sleepers, Water Fountains, Mash Hoppers, 2-ply Felt on roof, Dropping Boards, Perches, Bolts, Locks, Glass, etc., etc.

P. H. VENNER, Esq., Shottendane, Margate, writes:—

"The houses have arrived. I am well pleased with the construction, material and work put into them. They are a credit to you and your workmen. I shall have no fear or hesitation in recommending your poultry houses and appliances."

## THE "POPULAR" BROODING HOUSE.

Will have a 10 x 10 Brooding House also on Show, fitted up with hovers and also convertible to a Colony House. This house takes two large hovers.

Popular Brooding House has been specially constructed to take four of my old Renowned Pioneer Sanitary Hovers. 10ft. long, 10ft. wide, 7ft. high in front, at back, made of best 3in. T. G. and joint matching, on 2 x 2 planed inside lining, 2 x 3 roof bearers where required. It is also constructed of 3in. matching 2 x 2 joists, and four rows of 2 x 3 raised sleepers provided for erecting the house on.



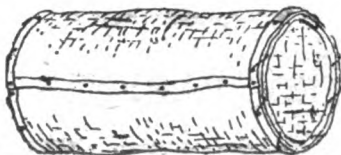
Three 4ft. hurdles for dividing Hovers, boarded up 12in. balance, 1in. wire netting. Glass panels at bottom of front, as shown in illustration, also at back. The outer doors are hung on special heavy pivot hinges, the whole coated with my preservative penetras, and roof felted with best 2-ply bitumen felt. Canvas shutters to drop over top ventilator inside under hood.

## THE "POPULAR" BROODING HOUSE.

PRICE OF HOUSE, COMPLETE AS ABOVE, £34 13s. 6d.; FOUR HOVERS, £2 9s. 0d. each; 100 to 150 Chick Size.

## PEDIGREE BAGS.

This bag has been thoroughly tested and found successful by the Patentees, the Messrs. Allday and Rawson.



Size 1 to hold 8 Eggs ..... 2/-  
Size 2 to hold 6 Eggs ..... 1/9  
Size 3 to hold 4 Eggs ..... 1/6  
Size 4 to hold 2 Eggs ..... 1/3  
Or a Set of Four Sizes for 6/-.  
Post Paid.

A. SYDENHAM HANNAFORD, M.S.P.B.A., Late Manager to Randolph Meech,  
HAMWORTHY JUNCTION, DORSET, ENGLAND.

Early-hatched s.e. R.I.R. Cockerels and Pullets from my Registered Pens (headed by sons of Mr. E. C. B. Boucher's World-Record Hen No. 37, which recorded 1,045 Eggs in Four Years), and from other very special Matings of Exhibitors and Utility Type. White, Fawn and White Indian Runner, and Khaki-Campbell Ducks of my own strains and the finest National Bantley Laying Test Bird, and a few Special Fawn and White Drakes from Dams which have recorded up to 300 Eggs in the year. Also a few special Mixed Pens.

**A. HAROLD PAINE,**

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Bantley Club.  
THE CHALET, BURGESS HILL, SUSSEX.

## Leckhampton Poultry Grit.

THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	8.10
Oxides of Iron and Alumina	...	2.92			
Calcium Phosphate	...	.56			100.00

### PRICES:

#### F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; 22 10s. 0d. per  $\frac{1}{2}$  ton;  
24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; 21 12s. 6d. per  $\frac{1}{2}$  ton;  
23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

**Mrs. CHARLES CARTWRIGHT,**  
S.P.B.A.,

**Welland Valley Poultry Farm**  
SEATON, UPPINGHAM.

Having mated her breeding pens, can offer a few Ancona, White Leghorn and Light Sussex Hens or Pullets at 15/- and 21/- each, or mated Breeding Pen of Six Birds for £4 5s. 0d.

Also a few White Runner Ducks at 7/6 each (Taylor's Strain).

All the above carriage paid, England and Wales.

Spring List out 21st December.

Please send your Name and Address, and it will be sent you.

Further Particulars from the Manager.

**AUSTRALORPS FARMS, LTD.,**

Importers, Breeders of Australian Prolific Laying

## AUSTRALORPS

Cockerels and Pullets from £2 2s. 6d. each.

Eggs and Day-Olds Ready from December.

24 Pens (Australorps) Mated.

New Illustrated MATING LIST Free.

Street Court, Kingsland,  
Herefordshire.



**I am a Eugenist!**

The Sown of a Noble Race  
Outclassing my Fellows  
Not by Breeding alone  
But by Thews and Sinews  
Yim and Virility.  
A Product of Steyne Foods  
The Science-sense of Feeding.

Lists and Booklet Post Free.

**The STEYNE FOODS Co.,**  
Steyning, Sussex.

**"Poultry Foods and Feeding"**

ALSO

**"Chicken Rearing"**

BY

**TOM NEWMAN**

Radgwick, Sussex.

Price 6d. Each,  
Post Free.

**Mrs. ALEC WILSON**

NOW OFFERS

Utility White Wyandotte Cocks and Cockerels from her prize-winning Stock, with trap-records of 210 to 270 x 271-282 oz. eggs and large.

From 30/- and 42/- each.

Write for Free Illustrated Catalogue.

**GARTH WYANDOTTE FARM**  
GARTH, BRECKONSHIRE.

**DR. J. H. BALDWIN,**

SPRINGFIELD P.F. WIMBORNE, DORSET.

ONLY THE VERY FINEST STOCK in

White Leghorns,

White Wyandottes,

R. I. Reds (etc.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.

# TOOK TOOK

"THERE'S EGGS IN IT"

REGD

	per cwt.	s. d.		per cwt.	s. d.
"TOOKTOOK" DRY MASH	16	6	"TOOKTOOK" MIXED GRAIN	15	6
"TOOKTOOK" LAYING MEAL	15	6	"TOOKTOOK" FATTENING MEAL	18	6

ALSO

**PURE DRIED BUTTERMILK, 15/- per 56-lb. tin.**

	per cwt.	s. d.		per cwt.	s. d.
CRUSHED MAIZE	11	6	SPECIAL POULTRY OATS	13	6
SMALL MEAL	13	0	BEST FEEDING WHEAT	13	6
MAIZE CHIPS	13	0	SUSSEX GROUND OATS	20	0
MAIZE MEAL	11	9	WHITE FISH MEAL (60 per cent. Alb. min.)	18	6
GLUTEN FEED	11	9	FINEST MEAT MEAL	22	6

All Free on Rail, Greenock.

Terms—Nett Cash with Order.

Complete Price List FREE.

Special prices delivered, or free on rail, London, Southampton, Plymouth, Liverpool, and all Irish Ports on application.

**MACFARLAN, SHEARER & CO.,**  
POULTRY FEEDING SPECIALISTS, (Department 36),  
**GREENOCK, SCOTLAND.**

**T. H. REDFORD, M.S.P.B.A.,**

*The Beeches Poultry Farm, MOBBERLEY (Cheshire).*

**WHITE WYANDOTTES. WHITE LEGHORNS.**

**R. J. R. (Soc.)**

**COCKERELS**, February Hatched, bred from L2 Hens, Sire's Dams, L2 Hens, with a yearly record of 245-255 Eggs.

the above Hens had also a year's record of 230 Eggs. Pedigrees and any particulars on application.

Price 21/- each.

LEGHORN PULLETS, also 60 Late May Hatched, at 10/6 each.

**TIMBER—What about it?**

ENORMOUS REDUCTIONS. WE PAY CARRIAGE ON ORDERS OVER £1.

Compare our Prices with others, but you cannot compare the quality.

4in. T.G.V. .... 7/3	4in. x 5in. Sawn Brds. 6/6	2in. x 2in. Battens ... 7/9
4in. T.G.B. .... 7/3	4in. x 5in. Sawn Brds. 8/6	3in. x 1in. Battens ... 6/-
4in. T.G.B. .... 10/9	1in. x 5in. Sawn Brds. 11/3	2in. x 3in. Battens ... 11/9
4in. T.G.V. .... 8/-	4in. x 2in. Battens ... 2/6	2in. x 4in. Battens ... 15/3
4in. T.G.V. .... 6/6	4in. x 4in. Battens ... 4/-	3in. x 3in. Battens ... 17/3
4in. T.A.G. P'ing 13/-	3in. x 1 1/2in. Battens ... 5/9	3in. x 4in. Battens ... 25/-
4in. W'boards 7/-		3in. x 6in. Battens ... 38/-

100 running feet. CUT TO LENGTHS OR MULTIPLES. Special Terms for large quantities. Other sizes quoted for. When ordering please state name of nearest Goods. Sawm Boards and Battens, planed all round, at slight extra charge. Sash and Mouldings, Greenhouse Timber, etc. We also supply Roofing Felt. Send enquiries. WE CAN GIVE IMMEDIATE DELIVERY FROM STOCK.

**USH & PARK (Dept.)** Clarendon Road Saw Mills, SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.39
	100.00

Nitrogen	7.36
*Including Sand	.06

### OSSIFIED YEAST.

Analysis.

	per cent.
Moisture	6.85
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.33
Fibre	0.20
Ash	21.04
	100.00

	per cent.
*Containing Nitrogen	6.36
" Phosphate of Lime	18.99
" Sand and Silicious matter	0.33
Total Food Units	150

PRICES:—

Dried Yeast, 21/- per cwt.

Ossified Yeast, 21/- per cwt.

Also our Complete Poultry Meal.

This Meal, containing both the above, is composed of the soundest and purest ingredients we can procure, and we believe it to be superior to any other Meal offered for the feeding of Poultry, and for egg production.

PRICE: 21/- per cwt.

Carriage Paid England and Wales.

Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

PURE SWEET STERILISED BLOOD.

**RENTOX (Regd.).**

7 lb. bag sent post free for 5s.

Full Particulars on request.

MIDLAND CATTLE PRODUCTS, Ltd.  
BORDENLEY STREET,  
BIRMINGHAM.

**MOORSWOOD**  
POULTRY FARM,

HERONS GHYLL, UCKFIELD, SUSSEX

Proprietors: Mrs. James Hope & Miss A. Howard  
Manager: Mr. E. Lott.

3 readers of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

RHODE ISLAND RED COCKERELS from £1 1s.  
Booking Now, Orders for Sitings and Day-Old Chicks



**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

Sittings of first-grade eggs from L2 birds, mated to  
 Cockerels from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels**  
 from large egg, high record L2 Hens.

**GEO. THISTLEWAITE,**

CORN MILLER,

**116, Wavertree Rd., Liverpool.**

Prompt Dispatch. No Waiting.

Best English Wheat	12s. 6d.
Best English Oats	12s. 6d.
Best Mixed Corn	12s. 6d.
Round Plate Corn	11s. 6d.
Sound White Dari	10s. 6d.
No. 2 Fowl Corn	11s. 6d.
Kibbled Maize	12s. 6d.
White Middlings	10s. 6d.
Best Bran	8s. 6d.
Laying Meal	12s. 6d.
Fish Meal	17s. 0d.
Meat Meal	17s. 0d.
Sweet Clover Meal	10s. 0d.
Green Bone	15s. 0d.
Uveco	18s. 6d.
Lasco	21s. 0d.
Flint Grit	5s. 6d.
Alfalfa	18s. 0d.

6d. cwt. less 5 cwt. lots.



Card of sixteen  
 markings given  
 with each

JUST ONE NIP AND  
 IT'S FORGOTTEN

**OWTOX**

CHICKEN TOE PUNCH

Retail price 1/-  
 post free 1/12

It is just the thing for identifying chicks. Far superior to  
 rings which only annoy the birds and become foul in use.  
**CLARKES F STATION APPROACH. REDDITCH**

**E. A. SALTER,**  
**POULTRY FARM,**  
**KIDLINGTON, OXFORDSHIRE.**

Pedigree Laying Strains of  
**WHITE WYANDOTTES, WHITE LEGHORNS,**  
**ANCONAS.**

Day-Old Chicks.	Hatching Eggs.
20/- per doz.	8/6 per doz.
80/- per 50.	32/6 per 50.
150/- per 100.	60/- per 100.

Carriage Paid. Unfertilized Replaced.

Special Quotations for Larger Quantities  
 or Regular Weekly Supplies.

**Every Cockerel Mated is the**  
**Son of an Over-200-Egg Hen**  
**by Trap-Nest Record.**

Twenty acres devoted to Poultry.  
 Over 2,000 Stock Birds.  
 Incubator Capacity for over 6,000 Eggs.

**NOTE THESE**  
**PRICES!**

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in rela-  
 tion to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	14/-
Kibbled Maize (Sifted)	11/6
Clipped Oats	12/6

**MEALS**

Maize Meal (fine)	11/6
Sussex Ground Oats	17/-
S.F.C. Dry Mash	15/-
Bran	8/-
Middlings	11/-

ALSO—Maize (whole), Dari, Bar-  
 ley Oat Feed, Barley Meal, Bis-  
 cuit Meal (Poultry), Service Meal  
 (fine), Cockle Shell, Flint Grit,  
 Mixed Grit, Pure Oyster Shell, in  
 K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMI-  
 CAL QUALITY FOODS** to-day.  
 Order through Secretary,  
 S.P.B.A., and get your discount.

*The* **Service Food Co.**  
**VICTORIA MILLS**  
**CRIMSBY**

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There  
 is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April)  
 Col. Hardy says:—"As regards chick rearing I have found the use of Dried  
 Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk  
 will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

Also for fattening:—

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

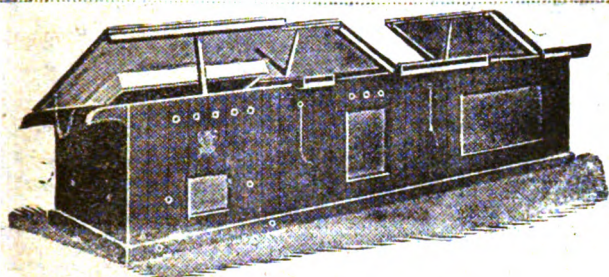
**5 PER CENT. DISCOUNT TO S.P.B.A. MEMBERS, IF ORDERED THROUGH**  
**ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**  
**BRITANNIA MILLS,**  
**HEATHFIELD, SUSSEX.**  
**6, BROAD STREET,**  
**RATCLIFFE, LONDON, E.1.**

# Supreme



**Phipps' "PERFECTION" Foster Mother.**

After hatching the chicks your whole success depends on the rearing. If you put them into a Phipps' "PERFECTION" Foster Mother you are sure to raise every raisable chick to early maturity and profit—the secret of the "PERFECTION" Brooder lies in the fact that it is the only brooder on the market built close to nature, with the result that its only rival is Mother Hen. This Brooder is stormproof—fireproof—fumeproof—contains brooding and exercising chambers, and raises every raisable chick under all weather conditions.

**PRICES:—**

60 chick size	...	...	...	£6 6 0
100 "	...	...	...	7 7 0
150 "	...	...	...	8 10 0

**I**N solving the problem of successful rearing of chicks Phipps' "PERFECTION" Foster Mother is supreme—positively—absolutely.

No other brooder in the world has the record of success that has been scored consistently season after season by the "PERFECTION."

Simply because it is designed and built on correct principles, following close to nature, with the result that the "PERFECTION" has but one rival, and that is Old Mother Hen.

At the Grand International Poultry Show the latest models of the "PERFECTION" created the greatest sensation at the show. Do not purchase a brooder of any kind until you have investigated the merits of this wonderful chick rearer. It is the World's Best Brooder—the one that is used by all the successful poultry raisers.

**WHY PHIPPS LEADS.**

**A. E. W. PHIPPS,**

Midland Works, No. 4,

**HARBORNE, Birmingham.**

## The Poultry-Keepers Safeguard

# "CLORINDA"

**THE Infallible Sterilizer, Antiseptic, Germicide and Deodorant**

**Keep your Healthy Birds in Good Condition.**

**Heal your Infected Ones, and Prevent Epidemics**

**By Using**

# "CLORINDA"

**Sole Manufacturers:—**

**THE UNITED ALKALI CO., LTD.,**

**CUNARD BUILDING, LIVERPOOL.**

Telegrams: Ubique,  
Telephone: Bank 9280.



## Summerfield White Wyandottes

Pen 52. Winners of Gold Medal, Three First and Three Second Class Certificates. Laid 1,567 Eggs in 12 months, 1,450 being laid at the Harper-Adams' Agricultural College Laying Trials, 1920-1921. Average per bird: 261.16 in 12 months.

### This Pen also Broke all Previous Records.

They excell in the most important points the breed should possess, viz.:-

- 1.—Birds well up to Breed Type.
- 2.—Birds of good size, but not coarse, excelling in quality.
- 3.—They have proved they will lay all the year round.
- 4.—One of the chief points in this strain is that they lay eggs well up to standard size, 2 ozs. See for yourself in official report the size of eggs they lay.

The entire Flock and Complete Poultry Plant, including Pens 74 and 74E, competing this year at the Harper-Adams' Agricultural College, has been sold by

Mr. C. E. SUMMERFIELD

TO

**Mr. MICHAEL F. PHELAN, S.P.B.A.,**

Cleave Barton, Northam, N. Devon,

To whom all Communications should be addressed.

Telegrams and Cables: "Phelan, Northam." Code Used: Marconi International.

Telephone: Northam 62. Railway Station: Bideford, L. and S.W. Railway.

## 40% Increase

in EGG PRODUCTION by the use of

## "KELITE" LAMPS

(British Made).

Instal them in your Laying Houses To-day.

"Stormlite"  
Lantern.

Burns Petrol.

**38/6**

Carriage Paid.



*Absolutely Safe  
and Reliable.*

250 c.p.,  
Costing less than  
½d. per hour.

The "KELITE" System of poultry lighting for the winter is the simplest and most economical. The "STORMLITE" is strongly made, fitted with mica windows, and gives a steady brilliant, white light, which is not affected by wind or storm. We are manufacturers of all types of incandescent oil and petrol lamps for all purposes.

Use "KELITE" TABLE LAMPS, HANGING LAMPS, etc., etc., for the HOME.  
SEND TO-DAY FOR LISTS.

**KITSON ENGINEERING CO. (London), Ltd.,**  
(Dept. "E"), Stamford, Lincs.

# More and Bigger Eggs from your Poultry

can be obtained by feeding your birds on a natural and complete food.

# PŪLBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritive ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

**3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.**

Made by the Manufacturers of  
**MELOX and MELOX MARVELS,**  
the PERFECT DOG FOODS

**W. G. CLARKE & SONS, Ltd.,**

LIMEHOUSE, LONDON, E.







# THE OFFICIAL ORGAN OF THE SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

Registered at the G.P.O. as a Newspaper.  
Vol. VI, No. 25. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

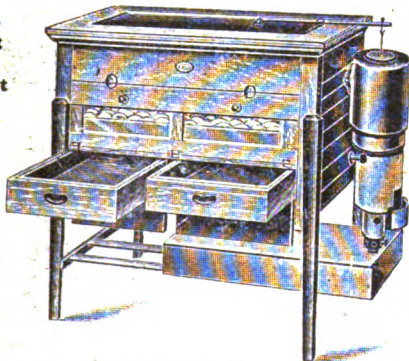
Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## HEBDITCH'S CHICK APPLIANCES.

YOU CAN ALWAYS DEPEND ON THESE.

THE "HEBDITCH" INCUBATOR  
WILL HATCH EVERY  
HATCHABLE EGG.

The following are sent out with Incubator at no extra charge: A reliable Thermometer, A Sensitive Capsule, Inside Electric Lamp, Large Tank Lamp, Galvanised Water or Moisture Vessel.



The "HEBDITCH" Incubator.

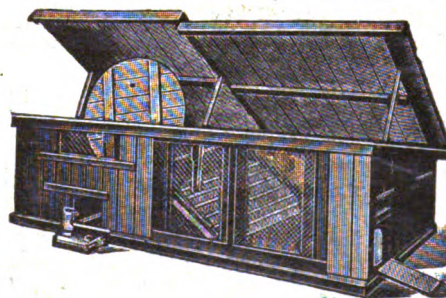
It is sent on FREE TRIAL for Sixty Days. If you are not satisfied we will send the money back—every penny.

Eggs.	Price.	Crate extra.	Eggs.	Price.	Crate extra.
40	£5 15 0	14/6	160	£8 10 0	18/6
70	£6 15 0	15/6	260	£11 10 0	23/6
100	£7 15 0	16/6	390	£15 0 0	27/-

If Crate is returned in three days after arrival of Incubator the money is refunded.

BOTH OF  
THEM ARE  
PROMPTLY  
DESPATCHED  
AND SENT  
CARRIAGE  
PAID to ANY  
STATION IN  
ENGLAND  
OR WALES.

THE "LORNA DOONE" FOSTER MOTHER  
WILL REAR EVERY  
REARABLE CHICK.



No.	Long.	Wide.	
1	4 ft.	2 ft.	for 70 Chicks.
2	6 ft.	3 ft.	for 100 Chicks.

The "LORNA DOONE" Foster Mother.

No. 1 costs ... £3 18 0

No. 2 costs ... £5 12 6

It is painted two coats good oil paint, roof covered with good thick Felt. Safety Lamp and good Thermometer Supplied.

## HARRY HEBDITCH, Ltd., ("J") Martock, Somerset.

Britain's Premier Poultry Appliance Makers, Poultry Appliance Makers to H.M. the King and to H.R.H. the Prince of Wales, and Universal Providers of all Poultry Requisites.



# Here is Proof Positive

that it PAYS to buy the BEST strains

LETTER No. 83.

The Boundaries,  
Four Marks,  
ALTON, HANTS.  
20th November, 1922.

Gentlemen,—

Will you please quote price for a second year Wyandotte Cock, which I want to mate with my pullets, which I purchased from you as day-old chicks from your No. 4 pen. They arrived here on March 3rd, and have proved very good birds.

Yours truly,

T. SCHELP.



If YOU want the best results write for full particulars to

## PRIEST & SHAW

### SANDOWN, ISLE OF WIGHT



## Highly-Fecund Stock Need Extra Nourishment.

Heavy egg-layers must be well-fed, otherwise their stamina is quickly undermined; their liability to disease is increased, and their power to resist it is lessened; their growth is checked, and their period of productivity and profitableness is very much decreased. Ordinary foods alone, however, are insufficient for prolific stock—something more nourishing is required, and that something is—

**Concentrated  
White  
Fish Meal**

# BYCOLLA

REGD

**Impregnated  
Pure  
Liver  
Cod  
Oil**

Bycolla provides the extra nourishment so necessary for highly-fecund stock. It aids the digestion and health of the bird, and ensures a permanent increase in the egg-output without forcing or loss of stamina. Young chicks thrive, attain early maturity, and possess a robust constitution if fed with Bycolla. It also prevents the tendency to soft bone in the progeny of heavy producers. Owing to its high concentration, Bycolla is very economical—not more than 10 per cent. must be added to each mash to obtain best results.

One ounce of Bycolla per day is sufficient for six hens. This works out to a cost of 0.04 of a ld. per day (less than 14th of a farthing per bird).

Terms:  
CASH WITH ORDER.

**25/-** Per Cwt.

CARRIAGE PAID  
ENGLAND and WALES.

Also sold by Dealers in 7lb. Bags. Price, 2s. 3d.

**BICOL, Ltd., 53, VICTORIA ST., GRIMSBY**

WE GUARANTEE THE ONLY OIL ADDED  
TO "BYCOLLA" TO BE  
PURE VETERINARY COD LIVER OIL.



# Sittings & Day-Olds

**S.C. RHODE ISLAND REDS**  
(World Record Strain),  
**BUFF ORPINGTON,**  
**COALEY FAWN,**  
**KHAKI CAMPBELL, and**  
**WHITE, BLACK, FAWN,**  
**and FAWN AND WHITE**  
**INDIAN RUNNER DUCKS.**

These may now be booked for delivery next year. A few early hatched Cockerels, grand sons of Mr. E. C. B. Boucher's World Record Hen No. 37 (1,045 eggs in four years), still available. Particulars free.

**A. HAROLD PAINE,**  
Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.  
*The Chalet, Burgess Hill, Sussex.*



## Hampshire Poultry Farms,

- as used on my:—
- |   |        |      |      |
|---|--------|------|------|
| No. 1.—Dry Mash Specially Prepared for Chicks             | 28lbs. | 4wt. | 1wt. |
|   | 5/-    | 9/6  | 18/- |
| No. 2.—Dry Mash Specially Prepared for Chicks at 10 weeks | 4/9    | 9/-  | 17/- |
| No. 3.—Laying Mash  | 4/6    | 8/-  | 15/- |
| The above can be fed as Wet Mash if desired.              |        |      |      |
| No. 4.—Chick Feed   | 6/-    | 11/6 | 22/- |
| No. 5.—Chick Feed at 10 weeks                             | 5/9    | 11/- | 21/- |
- No. 1 and 2 Mashies Contain Extracts of Milk which render them Invaluable for Growing Chicks.

**Free on Rail.**  
Quotations for Larger Amounts.  
Telegrams:—Four Marks.  
**P. V. NORWOOD, Four Marks, Hants.**

# Sustains Egg Yield through the Winter.

The big problem in the winter, as every egg-farmer perfectly well knows, is to get the birds to eat enough food during the all-too-short hours of daylight to bring about that condition of "surplus energy" which naturally produces a good supply of fine eggs. The feeding of FUL-O-PEP DRY MASH automatically solves this problem. This Mash is so palatable that the birds eat it voraciously, but the crop cannot become overloaded as Ful-o-Pep Dry Mash is so readily assimilated that it is quickly converted into eggs.

## FUL-O-PEP POULTRY FEEDS

FUL-O-PEP DRY MASH builds stamina in birds to an amazing extent. It is a scientific combination of the essential, vegetable, animal and mineral salts elements. It speedily brings the birds to tip-top condition, and builds in them a great reserve of energy, which, in turn, finds a natural outlet in egg-production.

Every egg-farmer understands how seriously the cold and gloom of the miserable winter days affects egg-production. FUL-O-PEP DRY MASH, by keeping the bird always in first-class fettle, neutralises the ill-effects of adverse weather conditions, thus having a vitally important effect for good upon egg-production.

If you would care for a copy of our book, explaining the Ful-O-Pep way of Feeding poultry for profit, just request it on a post card, addressed to:—

Poultry Foods Department,  
**QUAKER OATS, Ltd., 11 and 12, Finsbury Sq., E.C.2.**



TRADE MARK.

**1922 PULLETS.****OFFERS WANTED**

For  
Splendid Strain of White  
Leghorns April Hatched.  
1 to 40 for immediate disposal  
guaranteed not culled.  
Approval willingly against cash or deposit.  
*Crates to be returned.*  
**MARKHAM, SONS & ALLOTT, S.P.B.A.**  
**QUENIBOROUGH, near LEICESTER.**

**"An Egg in Every Ounce."**

**CLOVER MEAL****FOR POULTRY.**

"Klovera" brand of Clover Meal is  
the best Clover Meal on the market,  
and is unequalled for egg production.

"Klovera" is the only Clover Meal  
used in the Laying Test of the  
"S.P.B.A." and "Daily Express"  
Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots  
Carriage Paid in England

**ROSSLYN & Co.,**  
30, KENNINGTON PARK ROAD,  
LONDON, S.E.11.

**GRANULATED  
MOSS LITTER**  
For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 28lb., 2s. 6d.; 2, 5s. 6d.;  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**  
21, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**WHITE LECHORN FARM,  
WOODMANCOTT,  
MICHELDEVER, HANTS.**

A. F. C. Holdaway,  
W. T. Holdaway,  
H. Holdaway,  
C. Holdaway.

Telegrams—  
"HOLDAWAY,  
EAST STRATTON"  
Hatching Eggs and  
Day-Olds in Season.

Won't you be in time for Hatching Eggs? Ah, yes, and book them now!

A thousand second and third season hens are kept, and will be mated to birds whose  
dams have recorded not less than 200 eggs and upwards to 250 eggs in their pullet year.

**Price 7/6 for 12. 60/- per 100.**

Good Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.

Bankers: Messrs. Barclay's Bank, Ltd., Basingstoke.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS.  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock various ages.  
in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
R.I.R. (s.c.), and Barred Rocks.  
Inspection Invited. Cash or Deposit. Tel.: 50Y3

**QUALITY,  
PRICE,  
DELIVERY.**  
MAIN POINTS  
SEND FOR SAMPLES AND PRICES  
**JOHN W. BEVANS & Co.,** Tanager M., Putnam

**SPECIAL LIME STONE GRIT.**  
NONE GENUINE WITHOUT THIS.  
TRADE MARK.

Takes the place of Oyster Shell and Flint Grit.  
(Reg.).

2s. 6d. per cwt., 60s. per ton.  
F.O.B. Garston. Bags free.

All Lime Stone is not Poultry Grit.  
"Original Suppliers."

**E. A. PITTAM,**  
"Malbreak," Greenhill Road, Allerton, Liverpool.  
Agents Wanted in all Districts  
Samples Free. Six Grades.  
Liberal Commission Paid.

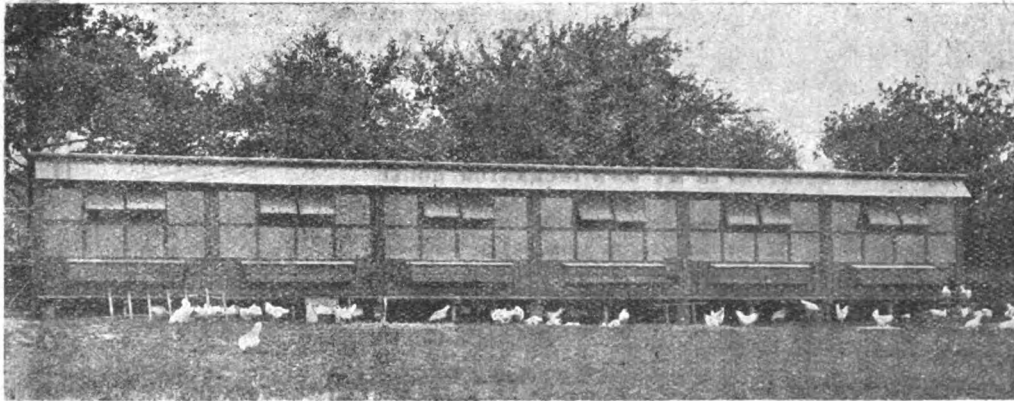


The Henman says "It's B."

**Eggs Insured**  
in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes  
Insurance Policy with every Box. Catalogue Free.  
**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**"UTILITY" TRADE POULTRY FOODS**  
Real Bargains until Parcels Cleared.  
Special Offers to S.P.B.A.  
per cwt.  
500 bags Pure White Wheat Meal 12 0  
500 bags Best Sussex Ground Oats 12 0  
1000 bags Fine Biscuit Meal 12 0  
500 bags Best Quality Fish Meal 12 0  
1000 bags Maize Gluten Meal 12 0  
500 bags Maize Germ Meal 12 0  
1000 bags Best Mixed Fowl Corn 12 0  
500 bags Heavy Chopped Oats 12 0  
500 bags Dairi Seed, Red 40/- White 12 0  
250 bags Manitoba Feed Wheat 12 0  
200 bags Light Wheat, Good Value 12 0  
100 bags Vegetable Charcoal 12 0  
1000 bags Special Laying Meal, con-  
sisting of Biscuit, S.G.O.,  
Wheat Meal, and Meat Meal 12 0  
F.O.B. Liverpool. Bags in. Cash Terms  
**ARGYLE MILLS, Argyle St., LIVERPOOL.**  
Phone: 2586 Royal. Telegrams: "Emphatic"  
Established 1862.

# The "PONDTAIL" Semi-Intensive House.



Illustrated Catalogue Free on Application.

3in. T and G. matching on 2in. by 3in. and 2in. by 4in. framing. Made in 10ft. sections.

No.	Length.	Width.	Front.	Back.	PRICE.	Floor Extra.
No. 1	10ft.	12ft.	8ft.	5½ft.	£18	£6
No. 2	20ft.	12ft.	8ft.	5½ft.	£32	£10
No. 3	30ft.	12ft.	8ft.	5½ft.	£46	£14
No. 4	40ft.	12ft.	8ft.	5½ft.	£60	£18

Carriage Paid. 7½ per cent. discount to Members of S.P.B.A.

**PONDTAIL POULTRY FARM,** (Prop.: J. V. MILNER-LENNARD, M.S.P.B.A.)  
**FLEET, HANTS.**

Wednesday, January 10th, 1922, at 11.30.

## OLDCASTLE POULTRY FARM, near MALPAS.

2½ miles from Malpas Station (L.N.W. Railway).

### IMPORTANT DISPERSION SALE.

of about

1,100 HEAD OF PRIZE WINNING UTILITY

LIGHT SUSSEX, WHITE LEGHORNS and WHITE  
WYANDOTTES,

Together with the whole of the VALUABLE APPLIANCES,  
etc.

## FRANK LLOYD & SONS,

Have received instructions from the Executors of the late  
Dr. J. E. Phillips, to conduct the above Genuine Sale  
entirely without reserve.

The LIGHT SUSSEX, THE BEST UTILITY STOCK IN  
THE WORLD, will include the winners of three Gold and  
one Bronze Medals, together with First Class Certificates  
in the open laying trials of Harper-Adams' College, and  
Cheshire Single Bird Test during the last three years.

Catalogues from the Auctioneers, Wrexham, Whitechurch,  
Crewe, Chester, etc., or of Mr. Arthur White, Hillside  
Poultry Farm, Bickerton, Malpas.

## GOOD NEW TIMBER!

WE

PAY CARRIAGE ON ALL ORDERS £1 and OVER.  
GIVE 5 per cent. DISCOUNT ON ORDERS £10 and OVER.  
GUARANTEE SATISFACTION OR REFUND YOUR MONEY  
GIVE PROMPT DESPATCH.

YOU

CAN RELY UPON US SENDING WHAT YOU WANT, AS  
WE WANT TO PLEASE OUR CLIENTS, NOT OURSELVES.

Size.	Per 100 ft.	Size.	Per 100 ft.
1 x 2 Battens	2 6	1 x 6 Boards	12 0
1 x 1	2 9	1 x 6	7 6
2 x 1	4 0	1 x 6	14 0
2 x 1½	6 0	4 inch Weatherboards	5 0
2 x 2	8 0	6 inch	7 0
2 x 3	12 6	6 inch	9 0
2 x 4	16 0	4 x P.T.G. Matching	5 6
3 x 1	6 0	1 x 6	8 6
3 x 3	18 0	1 x 6	11 0
3 x 4	25 0	1 x 6	8 6
2 x 6	29 0	1 x 6	9 6
1 x 4 Boards	5 0	1 x 6	11 0
1 x 4	10 0	1 x 6 P.T.G. Flooring	14 0
1 x 6	6 6	1 x 6	9 6

LARGE STOCKS ALWAYS ON HAND.  
CUT TO ANY LENGTH OR MULTIPLE.

## BROWN & JONES

Proprietors.  
W. BROWN,  
J. H. IVENS.

TIMBER MERCHANTS (Dept. M.)

MIDDLE WHARF, BAILY ST., CAMBERWELL,  
LONDON, S.E.5.

NO CONNECTION WITH ANY OTHER FIRM.



# A SPLENDID NEW YEAR'S GIFT.

TO YOUR SON, DAUGHTER, NEPHEW OR NIECE WOULD BE.

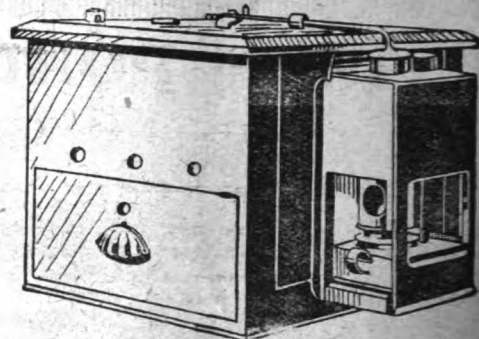
1, 50 "C.A.S.H." SAFE INCUBATOR	£ s. d.
50, PEDIGREE WHITE WYANDOTTE EGGS, which are	3 7 6
guaranteed fertile	2 2 0
1, 50 Size "PIONEER" HOVER	2 4 0
	£7 13 6
1, 25 "C.A.S.H." SAFE INCUBATOR	2 10 0
25 Wyandotte Eggs, as above	1 1 0
1 FIRELESS Brooder	1 0 0
	£4 11 0

All Carriage Paid.

AS I AM INSTALLING THE ABOVE MACHINES IN MY OWN INCUBATOR HOUSE TO THE CAPACITY OF 1,500 EGGS, I HAVE THE FOLLOWING MACHINES FOR DISPOSAL: Three, 150-Egg Glevums, used one season, £7 10s. 0d. each; Three 150 Rising Sun Incubators, £8 0s. 0d. each; One, 120 Cyphers, £6; One 50-Egg Rational, £5; Three 50-Egg Rationals, no drying boxes, £4 each. All Carriage Paid.

THIS MACHINE IS A MOST WONDERFUL HATCHER, AND I CAN THOROUGHLY RECOMMEND IT TO MY CLIENTS.

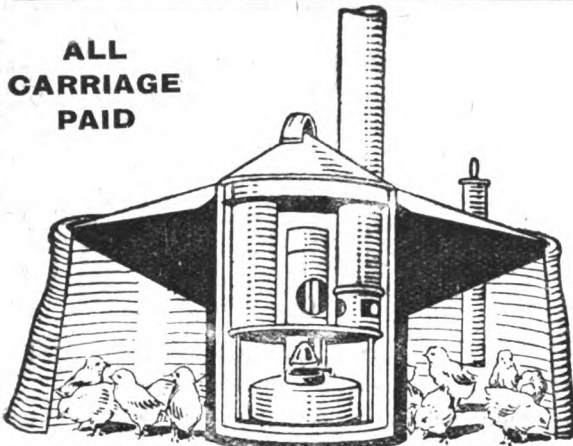
25 Eggs	£2 10 0
50 Eggs	£3 7 6
100 Eggs	£4 15 0



SHOWING EXTERIOR.

The "C.A.S.H." SAFE INCUBATOR  
Provisionally Protected.

ALL  
CARRIAGE  
PAID



INTERIOR OF HOVER SHOWING CHICKS.

## THE "PIONEER" SANITARY HOVER

Now so well known that I need make no comments. Its sales are doubling every month.

1,400

NOW IN STOCK.

50 to 70 Size	£2 4 0
100 to 150 size	£2 10 0
Three at £2 9s. 0d. each.	
Seven and upwards	£2 8s. each.

## A GRAND AND WELL CONSTRUCTED BROODER HOUSE.

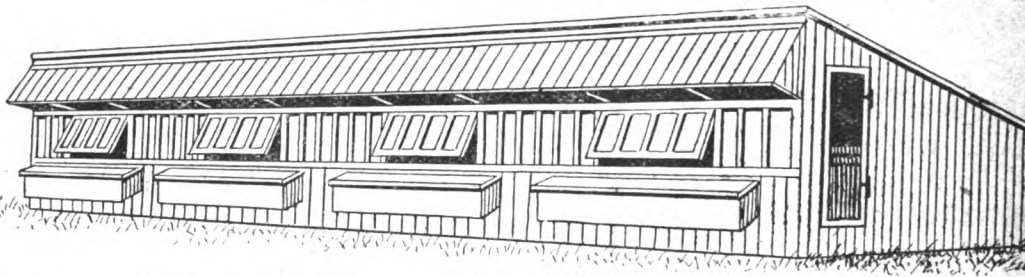
16ft. long, 10ft. wide, 7ft. front and 5ft. back, made of best 3in. T. G. and V-joint matching, complete with hurdles, glass felted roof, £34 13s. 6d. This will take four of my large Hovers at £2 9s. 0d. each.

All Carriage Paid.



## THE "POPULAR" BROODING HOUSE.

## THE "POPULAR" LAYING HOUSE.



No.	Long.	Wide.	High.	£ s. d.	£ s. d.	Extras Included.
1.	6ft.	10ft.	7ft.	14 5 0	3 6 6	Penetrating
2.	10ft.	10ft.	7ft.	19 4 9	4 10 3	Sleepers, Water
3.	16ft.	10ft.	7ft.	27 1 6	7 12 0	Fountains, Mash
4.	20ft.	16ft.	7ft.	42 5 6	14 9 9	Hoppers, 2-ply Felt
5.	30ft.	16ft.	7ft.	62 2 6	20 3 9	on roof, Dropping
6.	40ft., as illustrated			82 3 6	26 2 6	Boards, Perches,

Mr. Venner is a breeder of White Wyandottes.

Boards, Locks, Glass, etc., etc.

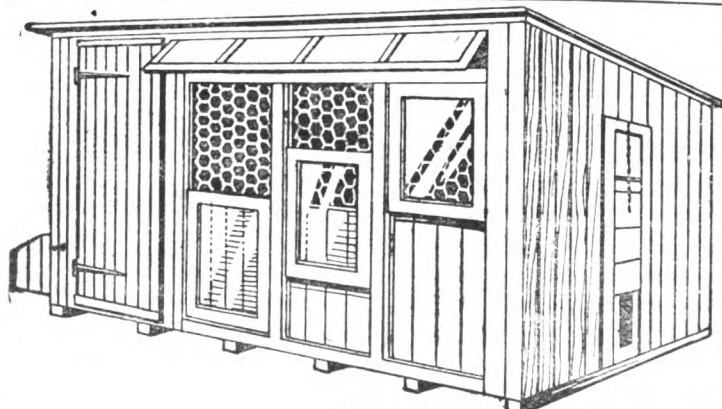
P. H. VENNER, Esq., Shottendane, Margate, writes:—

"The houses have arrived. I am well pleased with the construction, material and work put into them. They are a credit to you and your workmen. I shall have no fear or hesitation in recommending your poultry houses and appliances." All Carriage Paid.

## REDUCTIONS IN PRICES

But everything included as before.

1923 List Post Free



## WITHOUT A DOUBT THIS IS THE MOST

## "FAVOURITE" LAYING HOUSE.

Ever introduced to the poultry world. The door can be either put in end or front, as illustrated. The prices include nest boxes, felted roof, penetrating floor, dropping board and perches, glass shutter and glass hood. Please note the glass shutters are the size as shown. Some illustrations are misleading. The sizes are guaranteed.

Size.	Long.	Wide.	High.	Price	Size	Long.	Wide.	High.	Price
1	6ft.	4ft.	5ft.	£7 5 0	5	9ft.	6ft.	6ft.	£12 7 6
2	6ft.	5ft.	5ft.	£8 15 6	6	10ft.	6ft.	6ft.	£13 7 6
3	7ft.	5ft.	5ft.	£9 15 6	7	12ft.	6ft.	6ft.	£13 19 6
4	8ft.	5ft.	5ft.	£10 13 0					All Carriage Paid.

## C. A. SYDENHAM HANNAFORD,

M.S.P.B.A.

Late Manager to Randolph Meech

Dept. A. HAMWORTHY JUNCTION, DORSET, ENGLAND.

IN ANSWERING THIS ADVERTISEMENT PLEASE MENTION "EGGS."

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, December 20th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence of "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 8d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 6s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Leches, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Leches, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Farncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top of first page of classified advertisements.

## NATIONAL POULTRY INSTITUTE AND RESEARCH STATIONS.

### TWENTY-EIGHTH LIST.

Carried Forward ...	£1,139	5s.	1d.
G. H. Leake (Discount) ...	2	8	
Mrs. Epps (Discount) ...	4	5	
Miss E. M. Carwen ...	10	0	
C. T. Rogers ...	5	0	
Mrs. F. L. Kelly ...	25	0	
A. T. Griffith (Discount) ...	1	6	
G. E. Martin Cooper (Discount) ...	3	1	
Barrow, Mrs. C. F. (Discount) ...	13	2	
R. and B. Tickle (Discount) ...	7	10	
E. Croft (3rd Donation) ...	5	0	
Mrs. Haslewood ...	60	0	
Frank Smith ...	25	0	

Total £1,147 7 9

### S.P.B.A. MEMBERS SUBSCRIBE

£1,147 7s. 9d.

Fifty Pounds is offered by Mr. P. L. Johnson on the funds of the National Poultry Institute if 9 other members will give the same amount.

Or he will give £25 if 38 other members will likewise, in order to bring the S.P.B.A. total to £2,000.

A Derbyshire Reader offers £10 if 100 readers of "Eggs" will give the same amount, OR Five Pounds if 200 readers will also give £5.

### ONE PENNY AN EGG.

Several of our Readers have promised to give one penny towards the Fund for every egg collected on Christmas Day. One lady has offered to

give 1½d. May we appeal to those who have not yet given to help the fund in this way.

### MARKING OF FOREIGN EGGS.

Our Readers will be interested to know that the prospects of this much desired object being accomplished are much brighter, support has been promised from a quarter which in the past has been, if not antagonistic, decidedly lukewarm. More than this we do not feel at liberty to say, but we may add that we attach very great importance to this support.

### RETURNING TO

The National Poultry Institute Fund. We have the following very interesting offers:—

Mr. Sydenham Hannaford, 8 of his well-known Pioneer Hovers at £2 10s. each.

Mrs. Wyndham Malet, a "Dale-Vita" duck house, price 3½ guineas. This house was illustrated in our issue of November 22nd.

A complete Anti-Diphtheric Roup Outfit, including hypodermic syringe, needles, serum, etc., by Mr. M'Laren.

Mrs. Manwaring offers 8 1921-hatched Black Mendel hens. All guaranteed L2, with cockerel, these will be sent carriage paid, crates free, to highest bidder. This offer cannot remain open.

A few copies of Mr. Edward Brown's reports on the Poultry Industry in America, Denmark, Sweden, Wales and the Netherlands are still unsold. These are very instructive and of great interest. The price is one guinea the set, and the author will sign all copies.

## 'Eggs—Speriences' in 1922

By Lieut.-Col. F. S. N. MACRORY, D.S.O.

As a boy I used to be very keen on collecting eggs, and even now, at a sedate and reverend age, I find myself still devoting my spare time to this pursuit. I regret to say that in the present year of grace my efforts have not been so successful as I could have wished. If I knew all the reasons which have led to this disappointing result, I should know more than most people do about commercial egg farming. Perhaps some who read my experiences may be able to assist me in solving some of the mysteries and in showing me where my own deductions are wrong.

For one thing, however, it is certainly disorganising to have to go round one's stock of birds after dark with a loaded revolver in hand. This condition does not, I believe, apply to English poultry

keeping, but it has been a common practice in this delectable country for weeks on end during the present year (I will not add "of grace"). I do not consider this conducive to that concentration on the work in hand which is so necessary in all walks of life, but more particularly in the hen-walk.

There is also little doubt that if one is keenly interested in the "B" Special Constabulary of Ulster, one's interest in the White Leghorn Specials is liable to dwindle a bit. It is a mistake to try to run "B's" and poultry together, in spite of the teaching of some experts—the swarming of the "B's" is so very disorganising, and it is hard to get honey, or even honeyed words, out of them after a lengthy spell of patrol duty.

To return, however, to the commercial hen-bird proper, and its performances this year, I will try to start at the beginning—the egg. (We will not argue as to which came first, the hen or the egg.)

Having determined to hatch more White Leghorns than I ever did before, I decided to start incubation earlier than usual and to carry it on rather later than usual. My hatches were planned to occur every ten days, and I find from my notes that the actual day on which the chicks entered this vale of tears were as follows:—February 16th, February 26th, March 11th, March 21st, April 2nd, April 12th, April 24th, May 4th, May 17th, and May 26th. I shall have more to say about these hatching dates later.

My breeding pen consisted of some 300 White Leghorn two-year-old hens, mated early in January to 12 yearling cockerels. The hens had been selected the previous autumn out of a total stock of about 600 birds, the Hogan tests having been relied on as to the basis of selection. These birds, alone out of all my stock, had had no artificial illumination during the winter months, and had consequently been "resting"—like theatrical stars—all through November and December. When I mated them up I very gradually extended their days by the use of electric light in order to accelerate the early egg production. By the middle of January they were giving an average of about 50 eggs per day, and on the 26th January I was able to fill the first of my four 250-egg Gloucester Incubators, the proposed plan of campaign being to fill two incubators regularly every 10 or 11 days and thus pour out a continuous stream of chickens.

I worked the incubators on the lines advocated by "Eggs," viz.—temperature 105 degrees for the first week, 104 degrees for second week, 103 degrees for third week, no cooling, turning eggs five times a day, and extra moisture supplied in every conceivable way. I used "Tycos" Hygrometers in all the incubators in order to test the moisture conditions. The "Tycos" people hail from "little old New York," and, although America is a "Dry" country, these people have very moist ideas as far as incubating is concerned. They maintain that the following percentages of humidity, with the thermometer at 103 degrees, are correct:—

First week, about 60 per cent.

Second week, about 55 per cent.

Third week, about 50 per cent.

Hatching time, about 45 per cent.

This is contrary to all British notions, which, to the best of my knowledge, invariably indicate an increase of moisture towards the close of a hatch. However, the point is immaterial, as I soon found that unless I was prepared to put the incubators bodily into a steam vapour bath I should never attain to the 60 per cent. degree of the perfection required by Mr. "Tycos." I think I once did get the little wretches to read up to 40 per cent., but the effort was too great to be sustained, and the mercury soon sank exhausted to its usual position, just below the bottom of the scale (which starts its reading at 40 per cent). In spite of my failure to keep the mercury up to concert pitch, I must have been supplying far more moisture than the Gloucester people recommend. The net result of my first seven hatches was a percentage of 43 chicks per 100 eggs. Not very encouraging to a devoted seeker after incubator truths, is it? For my next three hatches I went back to the directions given in the Gloucester people's "book of words," with the exception that I omitted the cooling. For these hatches I gave no extra moisture, unless a few bitter tears shed occasionally on the incubators can be counted as such. The results of these hatches were slightly better than the first, but the difference was so trivial that I think the cause of my comparative failure must be sought elsewhere than in the methods of working. On thinking the matter out, I am inclined to lay stress on the following facts:—

(1) The temperature of my incubator room was very low, especially during the early part of the hatching season—about 40 degrees. This would, I think, tend to keep the atmosphere very dry, as the colder the air the less moisture it holds in suspension.

(2) My Incubator Room was also used as an Egg Packing Room, and consequently there was far too much opening and closing of the door, and also too much light chat going on in close proximity to the embryo chicks.

(3) Though the parent birds had a Dry Mash containing Fish Meal impregnated with Cod Liver Oil, I did not this year give them Skim Milk as I usually do, and hence their diet may have been short of the precious Vitamine B (the Cod Liver Oil would supply the Vitamine A, but not the B).

To remedy these evils for 1923, it runs in my mind to adopt the following measures:—

(1) To increase the temperature of the Incubator Room by keeping a Primus Stove burning continually in it, with a bucket of water on top of the stove to keep the air moist.

(2) For next season, the fair egg-packers will either be muzzled or, preferably, relegated to another sphere for their activities.

(3) I shall probably give "Marmite" to the breeding pen to supply the Vitamine B. (I would go back to the Skim Milk, but my wife

has spent much gold on a Separator and I can only get **separated** milk nowadays, which I believe is very little good. The members of the household certainly get much better cream and butter than in the ancient days, so are probably absorbing all the Vitamines which should go to the poor chicks.)

(To be continued.)

## Digestible Nutrients of Poultry Feeds as Determined by Poultry Laboratory Feeding Tests.

By Dr. B. F. KAUPP

(By courtesy of Editor "Rhode Island Red Journal.")

### HISTORICAL VIEW.

Up to the present there has been no table of digestible nutrients for poultry based on digestion trials with poultry, all the trials being on livestock. Seven years ago the nutritional section of the Pathological Laboratory of the North Carolina Experiment Station undertook a series of such tests, and we now are summarising the results of 21 tests. Up to the time of the commencement of our work there were but 69 digestion trials with poultry given in the literature at our disposal. To these 89 we are adding 101, making a total of 190 on which we can now with safety compute the percentage digestible nutrients on more than 20 tests.

The absence of definite standards and coefficients of digestibility of different feeds for poultry has been a serious drawback to the best work of practical feeding tests. The alimentary canal of birds is quite different to that of livestock, and it is desirable to determine if there is any difference in digestive co-efficients between birds and livestock. The fact that the undigested parts of the food and the urinary excretions are eliminated from the body together makes a serious obstacle in the way of protein digestion determinations with fowls and greatly increases the amount of analytical work to be done.

Space will not permit giving here the details of the work done by other workers in the field of our failed tables, but the reader of this paper can use this by sending to the writer for the Station letter soon to come out and entitled "The Digestive Co-efficients of Poultry Feeds and the Digestibility of Digestion and Fate of Grit in the Stomach."

### COMPOSITION OF POULTRY FEEDS. ALL ANALYSES TO DATE.

TABLE I.

The data in this Table is derived from N.C. Experiment Station, Bulletin 22, U.S. Department of Agriculture—Handbook for Farmers and Dairy-

men, Wolland Zusammen Setzung de Entleermittel, Dietrich and Koenig.

Feed.	Water.	Ash.	Crude Protein	Fibre.	N.F. Ext.	Fat.	No. Analysis
Barley	9.31	2.70	11.48	4.59	69.82	2.11	302
Buckwheat	11.90	2.21	10.84	10.10	62.24	2.71	21
Clover, Red (Green)	73.80	2.10	4.10	7.30	11.70	1.00	86
Corn	12.01	1.51	10.39	1.80	69.28	5.01	58
Corn, Cracked *	10.29	1.61	10.30	2.00	70.79	5.01	5
Corn Meal, Bolted *	13.13	1.23	10.10	1.79	68.10	5.65	6
Corn Meal, Unbolted *	11.10	2.00	9.10	2.90	69.30	5.60	4
Corn Meal	11.30	1.30	9.30	2.30	72.00	3.80	7
Cotton Seed Meal	7.91	6.40	37.60	11.50	28.37	8.20	486
Cow Peas	11.60	3.40	23.60	4.10	55.80	1.50	11
Oats	9.21	3.41	12.39	10.10	61.50	3.39	498
Oats, Hulled *	8.20	3.10	13.90	1.90	64.20	8.70	5
Oats, Rolled	7.90	2.00	16.00	1.50	66.10	6.50	8
Kafir Corn	11.35	1.78	11.02	2.35	70.52	3.00	141
Millet	9.10	3.50	11.80	7.80	64.70	3.30	6
Potatoes, Raw	78.80	1.10	2.20	0.40	17.40	0.10	465
Peanut Meal (with fat)	6.10	4.90	21.30	16.60	15.50	35.60	4
Peas	9.20	3.40	22.90	5.60	57.80	1.10	6
Rice	9.33	5.05	7.78	9.60	66.34	1.90	16
Rye	9.43	2.00	11.80	1.86	73.10	1.81	112
Soybean Meal	11.12	5.38	41.66	5.46	28.90	7.48	10
Wheat	10.20	1.90	12.41	2.20	71.19	2.10	864
Wheat Bran	10.10	6.30	16.00	9.50	53.70	4.40	7742
Wheat Middlings *	9.29	4.34	15.72	7.15	59.00	4.50	10
Meat Scrap	7.50	16.60	59.30	5.00	11.60	31	
Blood Meal	9.64	3.34	82.38	3.77	0.87	50	
Buttermilk (Dried)	10.12	6.42	34.16	48.31	0.99	4	
Fish Meal	9.70	31.10	49.30		0.90	4	
Meat and Bone Meal	5.90	36.36	39.69	2.09	4.89	11.37	63
Digester Tankage	7.42	19.29	52.15	3.11	4.03	14.00	57

\* Analyses by Kaupp and Ivey only.

The digestive organs of the fowl differ greatly from that of live-stock. The food passes from the mouth through the pharynx and the first portion of the esophagus to the crop. The food here becomes moistened, then passes through the second portion of the esophagus to the proventriculus, where it is soaked in a strong acid solution. It then passes into the gizzard and is ground to fineness. Thus ground and soaked with acid and a ferment pepsin it passes into the duodenum where pepsin digestion is completed. The content of the duodenum, about fourteen inches long, is strongly acid. At the lower end of the duodenum the bile and pancreatic secretions are poured out and the reaction gradually becomes less acid till the caeca, two in number, are reached. The liquid flowing into the large intestine, which in the hen of average size is about four and one-half inches long, now by reverse peristalsis of this portion forces the liquid forward, at the same time the caecal valves extend across the mouth of the free portion of the small intestine and the content is thus forced into the caeca. This can be demonstrated by forcing liquid through a syringe into the large intestine.

Since the urine and the undigested food accumulate in the cloaca and are voided together in the fowl, a means must be used in determining the uric acid content of the excreta of fowls, a factor not present in work with live-stock since in live-stock the urine is eliminated from the body through another from the undigested food channel of bowel.

Avian urine has a relatively small water content which rapidly evaporates and leaves a white flaky mass of uric acid so commonly seen on the droppings of birds. The urea, which makes up the major part of the nitrogenous end-product of mammalian urine, is highly soluble, whereas the uric acid making up the bulk of the nitrogenous end-product in avian urine is relatively insoluble. The insolubility of the uric acid is an important factor in making the uric acid determinations and



complicates the test. Mammalian urine is rich in chlorides, phosphates, sulphates, calcium and magnesium. Avian urine contains relatively none of these. The avenue of escape for the salts must be in another direction, and it is interesting to note that the yolk of the egg and the shell contain considerable quantities of such salts.

From a review of the literature at hand on this subject it would appear that fowls are apparently most efficient in digesting the nutriment in the order of nitrogen-free-extract, protein and fat. They digest relatively little or no fibre.

#### SUMMARY OF THE DIGESTION CO-EFFICIENT STUDIES OF THE FOWL.

In review of research literature we find but 89 individual digestion co-efficient tests with poultry. To this we have added 101, making 190 tests to date.

The digestion co-efficients with poultry were studied on 19 feeds. In the case of wheat middlings two series were run with wheat middlings alone and one in combination with unbolted corn meal. Since wheat middlings alone tend to cause looseness of the bowels, it was the desire to determine if this in any way influenced the accuracy of the work. To test this point a series of experiments were run with a combination of wheat middlings and unbolted corn meal. In the case of wheat middlings alone the average digestible organic matter is shown to be about 47.72 per cent. and 56.19 with an average of 51.95, while in combination with corn meal the percentage of digestible organic matter was 59.78 per cent.

In the experiments with corn meal one series was run with bolted and another with unbolted meal.

Not only did the birds stand up better under more than one feed, but apparently one feed favoured the increased digestion of the other feed. Some of the feeds as rye and middlings, if given in their pure form, cause irritation of the bowel and looseness, and still others, specially those of the animal products group as digester tankage, meat and bone meal, blood meal, dried buttermilk and fish meal are so concentrated that it is necessary to give them with other feeds in the digestion tests. In our work we used unbolted corn meal as shown in the tables. Digestion tests had previously been run with corn meal to determine its digestibility.

Crost in 1900 gave as his results that the crude protein of barley was more digestible than that of oats. We cannot confirm this result, as in two tests with barley 72.77 per cent. of the protein was digestible, while in three tests with rye 71.85 per cent. was digested, and in six tests with oats there was 73.49 per cent. digested or slightly greater digestion of protein in oats than in either barley or rye, which is the reverse of his findings. Crost further states that the crude fibre of barley and oats was absorbed to a slight degree. But

more in the case of rye. In our case 4.33 per cent. of the fibre was digested with barley and 4.68 per cent. in the case of rye, and in the oats 11.69 per cent. In our work the fibre of oats ranked first, rye second, and barley closely following.

Crost stated the availability of the fat in rye is very low as compared with the fat of oats and barley. In this we agree with him, as the digestibility of fat in rye was but 27.87 per cent., 64.36 for barley and 74.42 for oats.

Brown in 1904 concludes from his experiments that fowls digest crude protein and nitrogen-free-extract in much greater proportion in corn than in oats, and that wheat falls between the two. In our experiments in five tests with corn there was a total of 83.91 per cent. organic matter digested, wheat in six digestion trials ranking second and oats third with 63.78 per cent. As to protein, oats rank first with 73.49 per cent. digested, corn second with 68.71 per cent., and wheat third with 61.70 per cent. digested. Wheat shows a low percentage of digestible fat, being only 37.76 per cent., while corn is much higher, showing 75.20 per cent. and oats 74.42 per cent. This latter corresponds to Brown's findings. The digestive value of these three we place in the order of corn, wheat and oats. The low fat content of wheat, it being but 2.90 per cent., allows of wheat being placed above oats. The order of the value of all grains tested based on quantity of digestible nutrients as indicated in these tests are corn, hulled oats, wheat, kafir corn, rye, barley, oats, buckwheat, and rice.

Our tests confirm those of Bartlett and others, that fowls digest fibre with difficulty. The percentage fibre varies from 2.16 per cent. in the case of five tests with fat extracted soya bean meal to 11.69 per cent. in oats. It is quite apparent that the fibre content of poultry feeds should be as low as possible. The rapidity of digestion in fowls may be the reason for the low digestibility of fibre. Digestion tests with live-stock show that the animals with the longer intestine digest fibre more readily. The low digestibility of fat and fibre in wheat bran leads us to not favour its use as general and in such large amounts as used by many poultrymen.

Wheat middlings is at the foot of the list in the total number of digestible pounds in 100 pounds. This is true studying the first series of nine digestion trials showing 49.99 pounds in 100 pounds, the second series of six tests with 58.61 pounds and the third in combination with unbolted corn meal with 61.70 pounds in each 100 pounds. The average of these eighteen tests is 56.70 pounds.

With the exception of wheat middlings, meat and bone meal, digester tankage and blood meal these tests show fowls are more efficient in the digestion of nitrogen-free-extract than in the digestion of crude protein or fat. These include corn, wheat, oats, corn meal (bolted), buttermilk (dried), soya bean meal (fat extracted), peanut

meal (fat extracted), cotton seed meal, corn meal (unbolted), rye, hulled oats, buckwheat, rice, kafir corn and barley. They are more efficient in digesting fat over protein in corn, oats, corn meal (unbolted), hulled oats, buckwheat, rice and kafir corn; and more efficient in the digestion of protein over fat in wheat middlings, wheat, blood meal, buttermilk (dried), soya bean meal (fat extracted), peanut meal (fat extracted), cotton seed meal, rye and barley.

In studying the digestion results with these eighteen feeds we note that the feeds showing the highest percentage digestible matter are those low in fibre. These are, among the grains, corn, wheat, hulled oats, rye, and kafir corn, and among the by-products, corn meal and fat extracted soya bean meal and among all of the animal products. These feeds that are relatively high in fibre such as wheat middlings, oats, buckwheat, and rice are relatively low in total digestible organic matter. This reflects the inability of fowls to use to advantage the coarser feed stuffs, and suggests that the feed mixtures for poultry should contain relatively small proportions of such feeds as alfalfa meal, wheat bran, and wheat middlings. It is believed that rations that carry a low percentage of fibre will give the best results.

The highest percentage of digestion of protein is that of meat and bone meal, with fish meal coming a close second. Digester tankage ranks third with blood meal fourth, fat extracted soya bean meal fifth, and dried buttermilk sixth. Fowls assimilate best the protein of animal products.

#### KAUPP-IVEY TABLE.

TABLE II.

Showing Average Digestion Co-efficients to Date—Tests on Poultry Alone:

Feed.	No. Trials.	Organic		Crude Protein.	Fat.	Fiber.	N.F. Ext.
		Mat.	ter.				
Wheat Middlings	18	52.55	64.52	53.59	8.45	54.81	
Corn	18	86.42	81.05	83.23	5.86	90.55	
Wheat	16	80.68	69.82	48.78	6.40	87.73	
Oats	19	63.52	73.85	80.22	11.69	74.37	
Corn Meal (Bolted)	5	84.67	74.04	86.26	6.66	88.18	
Meat and Bone Meal	2	86.32	92.17	93.13	3.23	76.56	
Tankage	2	85.50	90.70	91.71	3.94	81.88	
Blood Meal	4	86.71	88.10	78.36		71.55	
Buttermilk (Dried)	5	80.79	81.55	78.01		81.14	
Soyabean Meal (Fat Ext.)	5	77.61	83.33	81.41	2.16	83.14	
Peanut Meal (Fat not Ext.)	5	65.94	80.35	78.41	4.08	84.14	
Cottonseed Meal	4	73.32	81.94	79.05	5.46	82.92	
Corn Meal (Unbolted)	3	83.21	73.50	84.50	6.80	87.60	
Eye	4	77.65	71.56	25.05	4.68	84.19	
Hulled Oats	5	81.75	69.83	84.57	4.91	86.22	
Buckwheat	8	70.14	56.79	85.09	6.33	82.69	
Rice	5	69.17	73.08	80.00	5.31	78.93	
Kafir Corn	11	83.50	68.56	76.96	4.45	90.60	
Barley	5	76.46	75.90	66.45	4.33	84.52	
Corn, Cracked	2	83.30	72.20	87.10		88.10	
Wheat Bran	3	46.70	71.70	37.00		46.00	
India Wheat	3	72.70	75.00	83.80		53.40	
Oats, Bolted	4	89.30	80.10	92.20		94.30	
Peas	3	76.60	88.10	81.20		87.10	
Cow Peas	6	71.90		88.70		87.50	
Millet	2		63.40	86.70		96.40	
Potatoes	6	78.30	46.90			84.50	
Beef Scrap	4	83.60	91.40	91.00			
Fish Meal	5	91.60	91.48	92.24			
Corn Meal	5	84.20	74.60	89.80		89.30	
Clver (Calculated)	3	27.70	70.60	35.50		14.30	

Kaupp-Ivey Table Showing Average Digestible Nutrients in Poultry Feeds.

### An Alleged False Trade Description. Adulterated Ground Oats. Liverpool Firm Fined in Nottingham.

A case of unusual interest to corn factors came before the magistrates at the Nottingham Summons Court (December 6th), when Messrs. Entwistle, of Vulcan Street, Liverpool, were summoned for having unlawfully sold to John Gallimore, proprietor Messrs. Calvert and Caparn, St. Ann's Well Road, Nottingham, a mixture of ground oats and barley meal to which a false trade description was applied.

Mr. A. M. Lyons, who appeared for the defendant firm, entered a plea of not guilty, and Mr. A. F. Heane held a watching brief for Mr. Gallimore.

Mr. A. S. Drabble, who prosecuted on behalf of the Ministry of Agriculture and Fisheries, explained that the proceedings were taken under a section of the Merchandise Marks Act, 1887, and that a false trade description was a trade description which was false in a material respect.

#### THE SAMPLE.

In the early part of March this year an article known as "Sussex ground oats" was invoiced to Messrs. Calvert and Caparn. To be an article of commercial purity those oats had to be ground in the Sussex manner. The next stage in the proceedings was a visit to the shop by Mr. Leivers, who took a sample of the oats under the Fertilisers and Feeding Stuffs Act for analysis. As a result of the reports of the analysts of the city and the Government, the Ministry of Agriculture and Fisheries instructed the Corporation to proceed against Mr. Gallimore for an alleged offence, but, having made further inquiries, they discovered that Mr. Gallimore was in the position of a helpless individual who had purchased the oats through the well-known firm of Entwistle, who were then proceeded against.

The analysis showed that the samples taken contained a proportion as large as 20 per cent. of barley meal.

Charles Hull, manager for Messrs. Calvert and Caparn, gave evidence of the order being given for the Sussex ground oats, and in reply to Mr. Lyons, he agreed that, having regard to the price of barley meal at the time, no benefit would have accrued by any adulteration. He could not see any difference in the bag of oats when they came.

John Gallimore, the proprietor, declined to agree with Mr. Lyons' suggestion that the admixture might have been caused inadvertently by serving various customers in the shop. "It is not impossible, but highly improbable," added witness.

"A MOST IMPROPER REMARK."

Major Trotman, the city analyst, said as a result of a microscopical examination he found

the sample, about 2 lbs., to contain 80 parts of good oats and 20 parts of barley meal.

A Government analyst said in all such examinations he allowed 5 per cent. for adventitious matter, but a sample containing 20 per cent. was undoubtedly adulterated.

Replying to Mr. Lyons, witness said that holding a sample of the oats in his hand he could not without a microscopical examination say that it looked any different from any other sample of "Sussex ground oats."

A representative of the Ministry of Agriculture and Fisheries produced correspondence, in which the Ministry had asked Messrs. Entwistle for the original invoice from their wholesalers, the North Shore Mills Co., in which the particular consignment of Sussex ground oats was noted, and the reply of the firm stating that they held the invoice, which was not forwarded.

Mr. Lyons: How on earth could they possibly identify an invoice which contained tons of this stuff, out of which this one small twopenny-half-penny order was sent to a man in Nottingham? I thought a Government department would have had sufficient intelligence to see that difficulty.

Mr. Drabble: That's a most improper remark.

The Chairman (Mr. F. Acton): The Government won't be affected by it. (Laughter.)

The witness answered that it was his experience that the middleman could produce such invoices, but not in all cases.

After an adjournment for lunch, the prosecution called several well-known corn factors from all parts of the country to speak as to the commercial purity of Sussex ground oats.

In cross-examination, one of them stated he had not heard of a case where an admixture had been caused through a mistake in the shop, and affirmed that to keep the stuff in an open bag in the front of the counter was in order—if it were for sale.

A large poultry farmer said that Sussex ground oats which contained barley meal would have the effect of fattening poultry and reducing their egg production.

For the defence, Mr. Lyons said the onus was now on them to show that they had taken all reasonable precautions against committing an offence, and that at the time of sale they had no reason to suspect the genuineness.

Apart from two special transactions, the firm did not deal in barley, and had no barley upon their premises at all. The stuff was purchased direct from North Shore Mills Co., and was despatched again without being handled by them.

#### NO FINANCIAL ADVANTAGE.

Mr. Lyons argued that the firm had done all in their power to give the fullest information to the Ministry of Agriculture, and complained that, although there was no compulsion in law, the prosecution might have allowed the defendant, as an act of grace, a sample of stuff for examination by their own analyst.

Mr. Lyons added that the firm had a 22 years' reputation, and it was inconceivable that they

would adulterate stuff for which they would gain not a pennyworth of financial advantage.

Mr. Isaac Entwistle, managing director of the defendant firm, said they had dealt in that special line of Sussex ground oats for about four years. On two or three occasions they had dealt in barley for a client, but it was received and despatched the same day. The Sussex ground oats were purchased from the North Shore Company as pure, and were delivered straight to their despatching centre, where there were no mixing appliances.

In reply to Mr. Drabble, witness said that, although a manufacturer, he had taken no other steps apart from the bare word of the firm, to come to the conclusion whether the article they were selling was pure or bad. He had faith in the firm's word that the oats were pure.

Another witness spoke of the occasion when the defendant firm purchased two bags of barley for a customer, and said the bags only remained in the despatch warehouse about two hours.

A former employee of Messrs. Entwistle spoke to purchasing a quantity of barley from Mr. Gallimore's shop that morning, and said it was taken from a bag lying on the top of another bag.

In reply to Mr. Drabble, this witness agreed that the barley produced was not of a sufficiently fine nature to have been used with the oats without detection.

The warehouse foreman of the North Shore Mill Co. said no barley was used for manufacturing purposes within 100 yards of the premises where the "Sussex ground oats" were dealt with.

John M. Walker, assistant manager of the North Shore Mills Co., Liverpool, said they took every precaution to see that the oats were pure. They were astounded on hearing of the analysis, and at once called in the most prominent analyst in the corn trade, who took six samples himself, and could find no fault with them.

The Bench conferred in private, and on returning the chairman (Mr. Acton, who was accompanied by Mr. W. H. Carye) said they had decided to convict.

Mr. Drabble applied for costs for the eight witnesses, some of whom had come from all parts of the country.

Mr. Acton said they were making the penalty £10, with £15 towards the costs.

On the application of Mr. Lyons, the Bench agreed to state a case.

#### LOCAL TRADER ABSOLVED.

Mr. Heane, for Mr. Gallimore, said the firm had been in business in the city for many years, with an unblemished reputation, and as there had been certain remarks passed in the course of the case he would like an expression from the Bench that Mr. Gallimore's reputation had not been tarnished.

The Chairman said the facts spoke for themselves, and there appeared nothing in the evidence to reflect upon Mr. Gallimore.



# CAM'S STRAINS

**W**ILL go down in Laying Strain History as the World's most productive layers.

The solid unimpeachable quality remains unaffected by the rolling tides of greater competition and for the past fourteen years

## "CAM'S REPUTATION"

has been the Gibraltar of the Utility Poultry Industry The reason is found in the quality of this famous stud's breeding stock, which has stood the Test of Time and proved itself in all leading laying competitions to be

## "Conspicuously First."

Procure your breeding stock and foundation of White Leghorns and White Wyandottes from this famous yard.

# EDWARD CAM.

The GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.

QUOTATIONS  
AND  
PARTICULARS  
FREE.

Satisfaction  
Guaranteed.

THE LARGEST ONE BREED  
FARM ON EARTH  
OR AS FAR AS WE KNOW  
ANYWHERE ELSE

# SONIMOR

(WHITE LEGHORN)

## LOOK OUT for OUR 1923 PRICE LIST !!

BOOK your ORDERS for HATCHING  
EGGS and DAY-OLD CHICKS in  
GOOD TIME (Saves future worry)

\*Phone :—  
6 Chaddleworth.

Grams :—  
"Sonimore, Leckhamstead."

# EGG FARM

LECKHAMSTEAD, NEWBURY, BERKS.

OUR POPULAR  
PRICE LIST  
AND OTHER PARTICULARS  
COST NOTHING

## HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

# TOM BARRON'S

Catforth Poultry Farm, nr. Preston

HIS  
**WHITE WYANDOTTES**  
and **WHITE LEGHORNS**  
are unbeatable as layers of large eggs, and plenty of them.

Send 1d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

## WHO SERVES BEST.

# THE "DALE-VITA"

## DUCK RECORDING HOUSE

The Result of Experience  
Tested & Proved Perfect

Full Particulars :—

# DALE DUCK FARM, DIBDEN, HANTS.

## STOCK COCKERELS.

We are now offering some extremely choice birds, bred from high record hens, and Tested L2 Sires. Reared Free Range.

**White Wyandottes.** Barron's strain, dam's record 245 2/3oz. eggs. Sire's dam 252 2/3oz. eggs, non-broody.

**R.L. Reds.** Crowley-Boucher strain. Dam's record 242 2/3oz. eggs; sire son of Boucher's Record Hen.

**W. Leghorns.** Cam's strain. Dam's record 255 2/3oz. eggs. Sire's dam 266 2/3oz. eggs. Price: One Guinea Each.

**Khaki-Campbell Drakes.** Best bred from Sisters to our Bentley Pen. Price 15/- each

A few choice Pullets in Reds and 'Dottes, from Tested L2 Hens. Just commencing laying. £1 Each.

All Carriage Paid. Fullest Approval.

What others say: "The two cockerels I got from you last December turned out the best I have had for several years, and maintained full vigour and fitness right through the season, and have bred about 300 fine pullets."—Hugh Sowerby, 14/8/22.

**G. R. PINDER, M.S.P.B.A., N.U.P.S.,**  
Lindsey Poultry Farm, CARLTON, LOUTH



# THE PREDOMINANT FACTOR in POULTRY FOODS is QUALITY and PRICE—We ask you to JUDGE for YOURSELVES.

**Our Foods contain both Cod Liver Oil and Dried Yeast.**

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ... ..	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ...	17 6
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ...	17 6	Poultry Mixture ... ..	17 6
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats)...	20 0	Poultry Oats (Clipped) ... ..	17 6
Alfalfa Meal ... ..	22 0	Kibbled Maize (Screened) ... ..	14 6
Green Clover Meal ... ..	18 0	Bearall 1st Chick Feed ... ..	24 6
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ... ..	21 0	Thryvon 2nd Chick Feed ... ..	22 6
Meat Meal (65 per cent. Alb. and Fat.) ... ..	23 0	Matusa Chicken Mixture ... ..	20 6
Chick Rearing Meal (Special), impregnated with 12 per cent. Cod Liver Oil (no milk required) ... ..	20 6	Yeast ... ..	19 6

Carriage Paid.

Carriage Paid.

*Special Discounts on all the above if orders are received through the S.P.B.A.*

WRITE TO US FOR A STUDY IN  
**VITAMINES**  
And their relation to SUCCESSFUL  
POULTRY KEEPING.

Post Free.

**E. DIXON & SONS,  
ST. ALBANS, HERTS.**

KEEP IN TOUCH WITH ALTERATIONS  
IN PRICES.

**GENUINE  
SUSSEX GROUND OATS.  
STONE GROUND in SUSSEX.**

	per cwt.	s. d.
Dried Skimmed Milk ... ..	24 0	0
Sussex Ground Oats ... ..	16 0	0
Maize Meal ... ..	12 0	0
Maize Gluten Feed ... ..	12 0	0
Maize Germ Meal ... ..	12 6	0
Pea Meal ... ..	16 0	0
Bean Meal ... ..	16 0	0
Meat Meal (Fine Ground) ... ..	22 6	0
Fish Meal (Best White) ... ..	23 6	0
Risonit Meal (Fine) ... ..	22 6	0
Clover Meal ... ..	17 0	0
Broad Bran ... ..	12 0	0
Middlings (Best Fine White) ... ..	13 0	0
Middlings (English) ... ..	12 0	0
Feed Wheat (Best English) ... ..	14 0	0
Feed Oats (Best English) ... ..	15 0	0
Kibbled Maize (Sifted) ... ..	12 6	0
Flint Grit ... ..	5 0	0
Limestone Grit ... ..	5 0	0
Oyster Shell ... ..	8 0	0
Cockle Shell ... ..	6 0	0
Rolled Wheat (for Chicks) ... ..	15 0	0
Dried Yeast ... ..	19 0	0
Pinhead Oatmeal ... ..	24 0	0
Whole Oat Groats ... ..	24 0	0
Broken Rice ... ..	16 0	0
*No. 1 Chick Feed ... ..	22 6	0
Mash for Laying Hens ... ..	15 0	0

(Both the latter are Mr. Tom Newman's Recipes.)

Carriage Forward.

**5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.**

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,  
Britannia Mills,  
HEATHFIELD, SUSSEX**

**CRAWFORD & DOWELL**

M.S.P.B.A., N.U.P.S.,

**CRAWDELL POULTRY FARM,  
HUNGARTON. LEICESTER.**

Breeders of

HIGH CLASS WHITE LEGHORNS and  
RHODE ISLAND REDS  
(Crowley-Boucher).

Our Pen of White Leghorns won

FOURTEENTH POSITION

in the

"DAILY MAIL" £1,000 TEST.

Against 190 Pens. all Breeds, competing,  
and finished SEVENTH out of  
108 PENS of LEGHORNS.

(One Bird Died in the Tenth Month of the  
Test).

PEN AVERAGE: 214 FIRST GRADE EGGS.

Our White Leghorns have been bred for  
Thirty Years for LARGE EGGS.

HIGH PRODUCTION AND STAMINA.

We are now Booking Orders for Eggs for  
Hatching.

A Few First Class Cockerels (W.L. and  
R.I.R.) still left for disposal.

**Bred-to-Lay**

OF

**W. WYANDOTTES,  
(BARRON.)**

**W. LEGHORNS,  
(PADMAN.)**

**Stock Cockerels and Breeding**

**Selected Strong Vigorous Cockerels  
Autumn Delivery.**

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars.  
Free on request.

**Major HADEN, S.P.B.A.  
NETHERBY HALL, SEDGLEY,  
STAFFS.**

# ITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 22/-;  $\frac{1}{2}$ -cwt. parcels, 13/6;  $\frac{1}{4}$ -cwt. parcels, 7/6

Freight Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up ally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL ULTRY KEEPERS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order, or deposit system.

When ordering please state whether with or without Alfalfa and nearest station.

Special Price for Orders within 50 miles London, 17/- per cwt.

HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),

5, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15

### TESTIMONIAL LETTER.

"My last advertisement showed splendid results, and there is no doubt that "Eggs" is the Advertising Medium.

Yours faithfully,

A. E. RICHARDS, S.P.B.A."

Mr. F. J. Churchyard,

94, Farncombe Street,

London, S.E.

## COUP, GAPES, CRAMP, COLDS, SCALY LEG.

### AND ALL POULTRY DISEASES.

Mr. Cecil L. Byrne,

gives instructions relative to the Prevention and Cure of Diseases, in his Book, "HEALTHY POULTRY."

Applied on Application FREE OF CHARGE by the Manufacturers of

FLUID **IZAL** POWDER

DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS. Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

IZAL FLUID.

1/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

SON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and

331, GRAY'S INN ROAD, LONDON, W.C.1.

Disinfectant Manufacturers by Royal Warrant to His Majesty the King.

Telegrams: Tilleywebb,  
Basildon, Essex.

You cannot SPECIALISE in a dozen  
different BREEDS.

We Specialise in Three only—White  
Leghorns, White Wyandottes,  
Rhode I. Reds.

By Specialising we mean Trap-  
nesting all the year round; in-  
dividual breeding and pedi-  
greeing.

To do this thoroughly with  
only Three Breeds in-  
volves a tremendous  
amount of extra  
labour.

**TILLEY & WEBB**

Please  
Send for one of our  
Illustrated Catalogues,  
Giving Pedigree and  
Records.

Prices within reach of Every-  
one's Pocket.

5 per cent. Discount Given  
on Catalogue Prices for all  
Orders Booked with Deposit  
before 1st January.

**TILLEY & WEBB, M.S.P.B.A.,**

N.U.P.S.,  
BASILDON POULTRY FARM,  
BASILDON, ESSEX.

Stations: Wickford, G.E.Rly.  
Pitsea, M.Rly.

## NEWMAN & NORWOOD,

FOUR MARKS, HANTS,

HAVE FOR SALE

### Pedigree Cockerels

OF THE FOLLOWING BREEDS:

WHITE LEGHORN,  
WHITE LA BRESSE,  
RHODE ISLAND RED,  
CROAD LANGSHAN.

Price 30/- to 42/- each.

Walter Taylor, of Crouch Poultry Farm, Burnham-on-  
Crouch, writes:—

"Will you please let me know whether you have any  
White Leghorn and Rhode Island Red Cockerels for Sale.  
you have supplied me with some good White Leghorn  
Cockerels in the past, and I have had good results from  
them. My average from nearly 50 Pullets kept intensively  
for the year was 204 eggs each.

Yours faithfully,

(Signed) WALTER TAYLOR."

**Cerema**  
**MARMITE**

### Vitamin Poultry Food

*THE Yeast Extract "par excellence."*

**SENT DIRECT TO POULTRY FARMERS**

**I**N view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

**The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.**

### Better Birds —more Eggs

**T**HIS preparation contains the impor-  
tant B. Vitamin so essential for the  
health of Birds. Birds having too  
little B Vitamin often go off their legs.  
Cerema M. helps to prevent this. Egg-  
laying is improved by addition of this  
vitamin to the food. Those who feed dry  
mash may give Cerema M. as a drink  
(1½ oz. to 1 quart water) to the Birds in  
the morning. Those who feed wet mash  
may incorporate a rather stronger solution  
in the mixture. Birds will take it eagerly.  
It increases their resistance to disease and  
assists digestion. Cerema M. can take  
the place of green food.



## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TOM NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

### THE REGISTER.

By the time this is in print most of you will have received your copy of the Register. I think you will all agree that the Editor has surpassed himself, and that this year we have the finest Year Book we have ever had. There are 6,000 copies printed, 2,000 more than last year, and we shall want everyone of them. That will give you some idea of the rate at which we are growing. I am going to leave it to someone else to review, but I must congratulate Mr. Mudie Draper on having done his work so well. I know it becomes increasingly difficult each year, because he set such a high standard from the first. It is a great achievement, and very few people realise what an enormous amount of work it entails. It was a supreme bit of good fortune for the S.P.B.A. when Mr. Mudie Draper was selected to edit the Register.

### AT OLYMPIA.

Our stand at Olympia proved very attractive, and we had a large number of visitors and enrolled many new members. It was very pleasant to meet so many old ones, and to listen to their very appreciative remarks on their work of the S.P.B.A. and "Eggs." I cannot say there was any criticism, but many useful suggestions were made, and many useful hints accepted, which were gratefully received. It was very satisfying to the members of the Council to mark the interest, and I may add the pride which our members like in their Association; to that, more than to anything else, we owe our success. There is not the rush at Olympia as there is at the Dairy Show. You can talk to visitors far more easily, even although you are fully conscious there are several others waiting to see you. You are not being pulled two ways at once.

### A REMARKABLE EXHIBIT.

On the stand we had a remarkable exhibit, sent me by Mr. G. Gush, of Winchfield, Hants. As far as appearances went, there was nothing remarkable about it. To all intents and purposes it was a rather small White Leghorn cockerel. In reality it was hatched in April, 1921, and in the moult this year transformed itself from a pullet into a cockerel. Mr. Gush, who is a breeder of very long experience, vouches for the fact. Hermaphrodites are not uncommon, but as a rule they exhibit the characteristics of both sexes in a marked degree, but this was not so in this case. The comb is slightly over, and the spurs at present are most elementary, but the plumage is male; the red crowns, not vigorously certainly. He attempts to mate with the hens, with which I have put him. I will keep him for a little while, and then I have Mr. Gush's permission to send him down to Dr. Crew at Edinburgh, to see what he makes of him. Of course, he is all capable of scientific explanation.

### RAILWAY CHARGES.

I wonder if all our members are aware that you can now send Pedigree Stock at Owner's Risk Rates on the

Railways. This is some concession, as if you send at companies' risk their liability is limited to 5s. per bird, and as far as I have been able to discover no extra care is taken of the birds. But, although you can send pedigree stock at O.R. rates to your customer, you can only send a bird to a show at Companies' risk. Why that is so, I don't know.

### SEX-LINKED INHERITANCE.

This subject has aroused an immense amount of interest, and I have had a very large number of letters about it since my article appeared in "Eggs" some few weeks ago. I mentioned there the White Bresse Wyandotte cross, which gave cockerel with yellow legs and pullets with blue. Now Mrs. Sedgwick writes to tell me that she has crossed Light Sussex hens with White Bresse males, and the pullets all came with blue legs, and the cockerels with white. This is a most interesting cross, and I think a very valuable one. The birds come pure White, mature very quickly, are excellent table birds as one would expect them to be; they should also be good layers, but would want careful handling in this respect, as there would be a tendency to put on fat. They should fatten very easily, as that is one of the marked characteristics of the Bresse, and one which makes them so valuable to fatteners.

### ONE PENNY AN EGG.

The suggestion from Mr. Clarke that members should give one penny for every egg laid on a certain day to the fund for the National Poultry Institute, has been quickly responded to. The day chosen is Christmas Day. It will greatly help the fund if our members will support it. I have already received promises from several members. Please don't forget one penny for every egg laid on Christmas Day.

### S.P.B.A. SUCCESSES.

I omitted the name of Messrs. Crawford and Dowell from the list of members who took prominent places in the "Daily Mail" Laying Test. Our members have been very much to the fore in this competition. Messrs. Crawford and Dowell were well in the winning "23," taking 14th position, and being 7th with White Leghorns—no mean feat in a competition of this size, and faced by some of the finest American stock. Congratulations, too, to Mr. Warwick Rogers, who has worthily upheld the reputation of British stock in America. In the Missouri competition his five White Wyandottes laid 1,281 eggs, and won first prize for pen, one hen laid 292 eggs, and won first prize for best individual record with Wyandottes, another laid 286 eggs, and a third the same number. He also took third prize with White Leghorns, his five birds laying 1,101 eggs.

### MR. MARCUS SLADE'S LOSS.

Mr. Marcus Slade tells me that he had the misfortune to have his pocket picked of his pocket book, which, among other things, contained the names and addresses of several people who had asked him about sittings of eggs, etc., and others who are interested in the new incubator which he is designing. Will those who are interested communicate with him at Mallard's Court, Stokenchurch, High Wycombe.



## CO-OPERATION.

By A. W. LEVER.

In the Dominions during the times of depression all classes of farmers immediately turn their thoughts to ways and means for improving the marketing of their produce, apart from lessening the cost of production. The usual outcome is that a few far-seeing business farmers lay the foundation of some form of Co-operative selling. According to the amount of support they get in membership from their fellow-farmers it either fails, or else, after many set-backs and much dissatisfaction amongst the members, becomes firmly established.

Of course, there are other factors which may cause a Co-operative Association to fail, but a membership of over 80 per cent. is sure to succeed, provided the executive are honest business men.

Having lived for two years in a particularly fertile valley, seventy miles from Vancouver, British Columbia, where all classes of farm produce is mainly sold through different Co-operative Associations, I would like to point out the things that struck me most about these associations in the hope that the promoters and subscribers to the British Egg Producers, Ltd., may find the information of some use.

The following observations are taken principally from "The Fraser Valley Milk Producers' Association" (which retails its own milk in Vancouver) and the "B. C. Exchange." There are others, "The B. C. Honey Producers" and "The B. C. Potato Growers" (just being formed), and last, but not least, "The B. C. Berry Growers, Ltd."

Commencing a co-operative society for farmers is like starting a battle you must expect a great deal of bitter opposition, not only from wholesalers, commission agents, and all classes of middlemen, but from the two people most concerned, that is, the producers and consumers, both of whom would ultimately benefit.

Taking the consumer or general public first, it has been found that they are very adverse to any movement of farmers which suggests control of the price of food (even if they are to benefit), particularly will this be so in the British Isles, where the housewife has such a wide range of prices, and without the confidence and buying support of the public, the association is doomed. For this reason it will be necessary to standardize and label all produce, so that every purchaser may see its origin. The question of support from the public is borne out by the big fight which the Retail Branch of the Fraser Valley Milk Producers is having to hold the majority of the householders in Vancouver.

Turning to the producer, what an upheaval for the English Egg Farmer to lose the personal sale of his produce and to be ordered by his local branch to forward his eggs as they think fit.

Also to be content with his cheque a fortnight or a month in arrears, much less than he had probably anticipated, or his neighbour who has kept out of the association to selfishly retain a special trade of his own.

This is the crux of the whole thing. The man who keeps out will get more for his eggs than the man in

the Association, and is the cause of great discontent and often loss of numbers.

I know nothing of the British Egg Producers, Ltd., but seems to me it would be far better for them to commence work in a district where there is a large number of eggs produced, and get solid membership there before they take in the whole country as a scattered minority will not be a good start for future propaganda and influence. Also they will find it best in the long run if they make signed contracts with their members to make those contracts cast iron, because you may then get obedience from some members who are lacking in loyalty, especially when times are bad.

With markets such as we have here in these Isles it is surely nothing but ignorance and selfishness for egg producers to let the foreigner hold the best, with a sound association to handle the product, egg farmers could be encouraged to start and expand, thus making one branch, at least, of English agriculture really worth while, in a country which is enviably suited for such work.

Briefly I will enumerate the benefits of a Co-operative Association to the producer:—

(1) He can *always* dispose of his *full* product to the Association (provided it is edible).

Why? His product having been graded it enables the large or small purchaser to obtain exactly what they need.

(2) It is the greatest benefit to the small producer who finds it difficult to obtain a staple market or make contracts for his varying quantities.

(3) His money is guaranteed, or should be.

(4) All his energies can be devoted to production alone.

(5) In all probability his produce can be collected at his door.

(6) Later his association can distribute feed-stuffs and equipment at much reduced prices deducting cost from his cheque.

(7) He associates at meetings, etc., with men of his own business, thus exchanging ideas which will tend to improve.

(8) His association will keep him informed of new methods and improvements.

Now for the other side:—

The following will be found irksome to certain producers:—

(1) Losing control of the disposal of his produce at his own price.

(2) Abiding by whatever regulations the association demands.

(3) Receiving less money per dozen for his eggs than his neighbour, who is selling privately.

(4) He will find himself thinking the association is cheating him should a mistake be made in the office.

(5) Will not realise that a co-operative executive must follow general business rules. They cannot force the public to buy their eggs at 3d. each when the market is 2d.

(6) Will be dissatisfied with the large salary paid to executive heads out of all proportion to what he is making.

There are probably many more things that will cause discontent and grumbling, but these are the chief, and

it is best for the directors to point out these from the first, because they will receive more abuse from their own members than anyone else, unless Britishers at home are different to those abroad.

All this may seem very trivial and commonplace, but it is best to be forewarned and take advantage of the experience and mistakes that other associations have or are passing through.

Another big factor in co-operation I have purposely refrained from commenting on is the executive and its policy to dispose of the members' produce. It is a large subject, and will require men of great business attainment, coupled with tact, to handle its members who may desire information on some question of policy which it would not be wise to disclose at that time outside the manager's office.

Should "Eggs" or its readers desire more information on any of the above observations, I shall be very pleased to give it, as I feel that only by the fullest discussion (public) before launching out can any movement of this sort be fruitful, especially where the interests of those concerned are so diversified as in this country.

## Answers to Queries.

By the EDITOR.

### DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

### POST-MORTEM.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 2s. for a reply through "EGGS," and 5s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear.

Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

### REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

N. Co. (West Linton). This is a very inferior sample of Ground Oats, not worth half the money you are paying for it. There is a good deal of ground husk added. It is a fraud to describe it as Sussex Ground. The Pea Meal is only a fair sample at a rather high price. (2) I don't think there is much doubt as to the Black Leghorns being pure, in spite of the white feathers, but I should not breed from those with brown feather.

Worried (Warninglid). Your mash would be much improved if you were to omit the Clover Meal, which is unnecessary, as your birds have plenty of range, and replace it with fine middlings; also reduce the

Fish Meal to one part. You are giving too much, and this may be upsetting the birds.

H. B. (Bishopstoke). No, I do not think the army hut would be at all a suitable place for you to move the 260-egg incubators the variation in temperature would be far too great, generally much too low.

A. H. (Tormorden). It was only quite recently that I explained the cause of blood spots in eggs. This trouble generally occurs during a period of heavy laying, at such a time the ovary is plentifully supplied with blood, to promote the rapid formation of ova. As an ovarian follicle ruptures to release the ovum some blood may escape from a congested blood vessel of the follicle. This blood passes into the oviduct along with the ovum, and is incorporated in the egg. There is no known means of preventing it, and I do not think that feeding greatly affects it.

A. B. (Durham). This would not be a good time to change from wet to dry mash, and it may seriously check the birds if you do. It would be better to wait until the Spring. If you do it now it must be done gradually. Reduce the quantity of wet mash daily, and have the dry always before them until you become convinced that they can do without it. (2) I fear if your breeding pen is made up of 20 hens and two cockerels that one of the latter will be so bullied that he will be useless. The weaker goes to the wall in this case. It would be far more satisfactory to divide them into two pens.

R. J. C. (Devizes). A "sappy" cockerel rarely throws good layers, whatever his pedigree may be, because he has a tendency to put on fat, and this he transmits to his pullets. (2) From an exhibitor's point of view birds which show red in the shanks are not good to breed from.

H. O. (Derby). The two samples of dried yeast duly to hand, I do not think they will have lost any of their value by your method of drying, and there is no reason why they should not be as good as any sample on the market. The wind dried is perhaps the better of the two. We are sending you full particulars of the S.P.B.A., as you request.

F. C. (Carterton). Your birds are very backward, and there must have been something radically wrong with the rearing for May hatched pullets to be only just getting their adult plumage now. I think your wisest plan will be to dispose of these at once, as they will never be profitable. The samples you send are fair, but the Ground Oats are not tip-top, but the Bran is very good. The real trouble with your birds is that you are not feeding them well enough for egg production. If you reduce the 8lbs. of toppings to 4lbs., and the bran to 2lbs., I have no doubt the results would be better. You should also get a better sample of Ground Oats, and in place of the Gluten Feed it would in this case be better to use Maize Meal. (2) I cannot say what is wrong with the pullet, as the symptoms are not clearly enough defined.

Givenchy (Madeley). If you are satisfied that the losses you had from chicks from this breeder were due to B.W.D., and on that point, of course, I cannot express any opinion, it would be very unwise on your part to use the surviving cockerels in the breeding pen during the coming season. It is hard luck, but I think you would be wiser to scrap the birds.

Burcote (Oxon). As the mash is in no way forcing, I should not cut down the Fish Meal. It would be rather a mistake to double the Bran during these short days. I do not think you need have the least anxiety as to the vitality of the chicks. The hens will not lay too heavily.

T. H. D. (Southboro'). I do not think it would be necessary for you to wire in runs with the size of house you are using on two acres of land. If you placed the houses far enough apart, but I do think you are making a mistake in adding another breed, as you have two already, and ducks as well. I should think you have got hold of a very bad laying strain of Runners.

H. R. S. P. (Llandudno). Your feeding is altogether wrong, and you will never bring the birds into lay unless you alter it. They must have some animal food. At present they are hardly getting any protein at all. Continue the grain feeding as at present, and make your mash of 1lb. Bran, 1lb. Alfalfa Meal, 4lbs. Middlings, 1lb. Maize Meal, Sussex Ground Oats and Fish or Meat Meal.

A. T. (Southampton). The Gluten Feed is a wretched sample, and I am sorry to see that manufacturers are endeavouring to meet the demand that the poultry-keeper has created by adulterating it heavily with offal, thus making it much inferior in nutrient value. If this continues we shall have to give it up as a foodstuff for poultry. Both samples of Ground Oats are good value, but prefer that at 17s. The White Fish Meal at 18s. 6d. is better than that at the higher price with the fancy name.

W. H. (Pitsea). Both the Middlings and Bran you send are very poor samples, but the Germ Meal and Fish Meal are both good. Your mash is not a good one. It would be much better if you were to make it: 2lbs. Bran, 4lbs. Fine Midds., 1lb. each Ground Oats and Germ Meal and Fish Meal. Your April hatched Leghorns should have been laying in October.

H. C. (Oxford). I could possibly have made some suggestion as to the cause of the death of your friend's fowls had you given me some details as to symptoms. The birds were fed on scraps from their own household, and from a neighbouring club dried off with middlings. They were all perfectly well in the morning, late in the day they seemed to mope. Five died soon after, four later on, in spite of the fact that he tried to give them Epsom salts. I do not think your suggestion of castor oil would have helped much. In any case castor oil is not a good remedy for fowls. If it had been salt poisoning, there would have been excessive thirst and diarrhoea. Presuming these

symptoms did not show themselves, we can only conclude it was ptomaine poisoning without there was some foreign substance in the scraps from the club.

E. E. M. (Chelmsford). The samples you send are very good, most of them much above the average. The protein content of your mash is rather high, and I think you would get equally good results with half each of the dried yeast and fish meal as you are using Soya Bean Meal. Your best plan would be to use a Fish Meal impregnated with Cod Liver Oil. If you prefer to mix it yourself, the proportion should be one teaspoonful to the 1lb. of Mash. The bran would be the best thing to mix it with.

New Reader (Preston). There is not much wrong with the composition of your mash, but I think you are making a very great mistake to give 3ozs. of grain per bird daily. This can only lead to a smaller consumption of mash, and, consequently, the birds are not getting enough protein. It would greatly improve matters if, as you are so short of green food, you were to replace 10lbs. of Bran with the same quantity of Alfalfa Meal. This would help to make up the deficiency of lime. You would be wise to reduce the amount of Grain to 2ozs. daily, and increase the mash correspondingly. I would not advise the use of any condiments. A healthy bird will always digest its food without any assistance. Your hens may be suffering from rheumatism, but I do not think it is so. Try giving them a little Marmite. Your grocer will supply. Give them a piece about the size of a bean dissolved in milk twice daily.

C. H. B. (Sandown). I have not the records you want, but you could obtain them from the Principal, the Harper Adams' College, Newport, Salop. (2) It was only in the issue of November 22nd that I gave a mash containing dried yeast, with an article on the subject of yeast. The mash was as follows, part are by weight: 1 lb. Bran, 1 Alfalfa Meal, 4 Middlings, 2 Sussex Ground Oats, 1 Maize Germ Meal,  $\frac{3}{4}$  Dried Yeast,  $\frac{3}{4}$  Fish Meal, preferably impregnated with Cod Liver Oil. This might be used for chicks after a month old if the Yeast and Fish Meal were reduced to  $\frac{1}{2}$  a lb. each and another lb. of Bran added. (3) If you cross O.E. Game hens with White Leghorn males you will get both better table birds and better layers than if you used the reverse cross.

Edina (Edinburgh). "I have been told by a member of the Agriculture College here that to handle fowls at night after perching causes them to lay shell-less eggs. Is this correct? I am having several cases of this just now among my birds which have been a great deal handled at times, owing to very bad roup amongst them. I don't know how I should get on without 'Eggs' as through its help I have got these birds through roup without any loss at all."

Birds which have become highly nervous through frequent handling often lay shell-less eggs; it is not the fact that they were handled after perching at night that caused it, but that combined with

the roup treatment would tend to produce such a highly nervous state that the egg would be produced before it is properly shelled. If you keep them as quiet as possible they will soon become normal again. Frightened birds will often lay shell-less eggs. I am pleased you have found "Eggs" so helpful.

G. G. (Launceston). There is nothing which will foretell the sex of the chick in the egg. You will get just the same results if you use the kitchen poker. These Sex-Testers have been tested and found absolutely worthless; the test made on an Egyptian mummy resulted the heart being declared feminine and the liver masculine. It is simply a case of auto-suggestion, and if you place any reliance in them you are likely to be rudely deceived. They were never advertised in "Eggs," and we pointed out the futility of them years ago. We used to play the same game with a needle threaded with silk when I was a boy.

### POST-MORTEMS.

Miss Ashworth. The bird had ruptured a yolk sac internally. She had congestion of lungs, liver, kidneys and spleen. There was also prolapse, and the parts inside the vent were so much inflamed. The milky discharge you speak of suggested that the bird might have broken an egg in the passage, but there was no sign of it. Will you please tell me how you feed? That may have something to do with the discharge. After that I will advise you about treatment. There is no reason why you should not eat the eggs she laid.

H. Simpson. Do you think your hen could have picked up any poison or anything that would hurt her? The inside of her gizzard and intestines was very red, and her kidneys were enlarged. She was very thin.

W. Benham. Your bird's liver was much enlarged, and had many cancerous growths in it. This kind of cancer is infectious. You should handle all your other birds and isolate any that are losing flesh as suspicious cases.

G. Fletcher. Your bird had peritonitis, due to rupturing a yolk sac internally. Her kidneys were also enlarged and blocked. As you mix your mash by measure, you should not give more than half the Fish Meal you are now using. If you were to weigh all the ingredients, I think you would find you have quite 25 per cent. Fish Meal by weight. People forget that Fish Meal is so heavy. I think that may have caused the trouble.

W. Ellison. The bird had congestion of the lungs and other organs. Do you think she could have had a chill?

A. F. Caine. Your bird had dropsy and cancerous growths in the ovary. I am afraid there is no cure for that. See reply to W. Benham.

S. Travis. Your bird had pleurisy and slight congestion of windpipe, lungs and intestines. As you have other birds with colds and difficulty in breathing, you should examine the house to see if there are any draughts.

T. J. The cockerel had a large tumour. I will report more fully next week when I have had time to examine it.

## Market Report.

MINISTRY OF AGRICULTURE RETURNS, WEEK  
ENDING, FRIDAY, DECEMBER 15th, 1922.

GRAIN AND FEEDING STUFFS.—Quotations for corn are this week given per cwt. in addition to the customary measure. This step has been taken to facilitate the change from the old to the new system which will be necessitated by the coming into force of the Corn Sales Act on the 1st January next.

Supplies of home-grown wheat are fully sufficient to meet the very moderate demand and prices are again lower, milling samples averaging about 43s. 6d. per 504 lbs. (9s. 8d. per cwt.) against 44s. 3d. per 504 lbs. (9s. 10d. per cwt. last week. Imported wheat is also cheaper. Trade for mat'ing barley shows no improvement, and feeding descriptions barely maintain their price, while oats, both home-grown and imported, are in quiet request and prices have an easier tendency. Maize is cheaper on the whole, Argentine averaging 37s. 6d. per 480 lbs. (8s. 9d. per cwt.).

Bran easily maintains its value, supplies being very short, but middlings are again easier, averaging £8 2s. 6d. per ton.

MILLERS' OFFALS.—Bran (British): Hull, £7 12s.; Liverpool, £8; London, £7 5s. Broad Bran: Bristol, £9 7s.; Hull, £9 2s.; London, £8 5s. Fine Middlings (Imported): Liverpool, £9; London, £9 12s. Coarse Middlings (British): Bristol, £9; Hull, £7 17s.; Liverpool, £7 15s.; London, £7 17s. Pollards (Imported): Bristol, £7 15s.; Hull, £6 15s.; Liverpool, £6 15s.; London, £7 2s. Rice Bran: Bristol, £8 5s.; Liverpool, £7 15s. MEAL.—Barley Meal: Bristol, £10 10s.; Hull, £10; London, £10 15s. Maize Meal: Bristol, £10 7s.; Hull, £9 10s.; Liverpool, £9 17s.; London, £10 10s. Maize Germ Meal: Bristol, £10 15s.; Hull, £10; London, £10 10s. Maize Gluten Feed: London, £9 5s.

### EGGS AND DEAD POULTRY.

Eggs are again lower in price, the average price being 3s. 1d. per dozen as compared with 3s. 4d. last week. London Week-end prices (per 120): English New Laid, 27s., 28s.; Irish, 24s., 26s.; Danish, 24s., 27s.; Dutch all brown, 26s., 27s.; Egyptian, 12s., 13s.; Canadian, 18s., 19s. Poultry maintains recent rates except in London, where ducks and Turkeys are dearer.

### EGGS.

Per Doz.—Ashford: First, 2s. 9d.; Second, 2s. 6d. Birmingham: First, 3s. 3½d.; Second, 3s. 0d. Carlisle: First, 3s. 0d. Chelmsford: First, 3s. 0d.; Second, 2s. 9d. Denbigh: First, 3s. 2d.; Second, 3s. 0d. Derby: First, 3s. 10d. Dorchester: First, 3s. 6d. Exeter: First, 3s. 6d. Hereford: First, 2s. 6d. Hull: First, 3s. 6d. Ipswich: First, 3s. 3d.; Second, 2s. 9d. King's Lynn: First, 3s. 0d.; Second, 2s. 9d. Lincoln: First, 2s. 9d. Llandilo: First, 3s. 0d.; Second, 2s. 9d. Montgomery: First, 3s. 6d. Newport (Mon.): First, 3s. 3d.; Second, 3s. 0d. Norwich: First, 3s. 0d. Oswestry: First, 2s. 9d.; Second, 2s. 6d. Penzance: First, 2s. 4d.; Second, 2s. 3d. Salisbury: First, 2s. 8d.; Second, 2s. 6d. Shrewsbury: First, 3s. 6d.; Second, 3s. 0d. Skipton: First, 3s. 6d. Taunton: First, 2s. 10d. Truro: First, 2s. 3d. York: First, 3s. 3d.; Second, 3s. 0d.

### POWLS.

Per lb.—Birmingham: First, 1s. 4d.; Second, 10d. Derby: First, \*4s. 6d.; Second, \*2s. 9d. Exeter: First, 1s. 6d. Hereford: First, 1s. 3d. Ipswich: First, \*7s. 0d.; Second, 5s. 0d. Lincoln: First, \*5s. 0d.; Second, \*3s. 0d. Llandilo: First, 1s. 7d.; Second, 1s. 0d. Newport (Mon.): First, 1s. 6d.; Second, 1s. 2d. Norwich: First, \*8s. 0d.; Second, \*6s. 0d. Shrewsbury: First, \*5s. 0d.; Second, \*4s. 0d. Taunton: First



\*5s. 6d.; Second, \*4s. 0d. Truro: First, 1s. 2d. York: First  
\*5s. 6d.; Second, \*4s. 6d.

#### DUCKS.

Per lb.—Birmingham: First, 1s. 3d.; Second, 1s. 0d. Derby  
First, \*5s. 9d.; Second, \*4s. 9d. Exeter: First, 1s. 6d. Here  
ford: First, 1s. 8d. Lincoln: First, \*6s. 6d.; Second, \*4s. 6d.  
Llandilo: First, 1s. 7d.; Second, 1s. 3d. Newport (Mon.)  
First, 1s. 5d. Norwich: First, \*7s. 6d.; Second, \*5s. 0d.  
Shrewsbury: First, \*6s. 0d.; Second, \*5s. 0d. York: First,  
\*6s. 6d.; Second, \*6s. 0d.

\* Per Head

#### APPLICANTS FOR MEMBERSHIP.

Bell, Mrs. W. L., East Burnham House, Farnham Royal,  
Slough.  
Fletcher, Capt. A. B., Rowleys, Newton Toney, Salisbury.  
Lawler, A. C., 67, Lucean Road, Tooting Bec Common, S.W.1.  
Mackenzie, Capt. H. C., "Chesney," Herne Bay, Kent.  
Nethercoat, Lewis J., Constant View, Queenboro' Road,  
Queenborough.  
Clutterbuck, Chas. R. C., 2, Kew Gardens Road, Kew, Surrey.  
Rowlands, M. J., M.D., Southwood, Westerham Hill, Kent.  
Benn, Wm., Totton, Hants.  
Campbell, Major A., Easter-Warriston, Edinburgh.  
Watson, John, 14, Lichfield Road, East Ham, E.6.  
Redgrove, Mrs. E. M., 28, Greenhill Road, Harrow-on-the-Hill.  
Hann, W. J., The Cheviots, Vancouver Road, Catford, S.E.6.  
Plimpton, A. A., Beverley, E. Yorks.  
Evans, J. J., Little Coldharbour Farm, Aldbury, Tring, Herts.  
Moreland, F. J., Highbury, Shinfield, Reading, Berks.  
Rosedale, John Lewis, M. A., P.H.D., 30, Coleherne Road,  
S.W.10.  
Petro, Anthony (J. A. H.), Bilsborough, Hanfield, Sussex.  
Mitchard, A. A., Brooklyn, Radstock, Somerset.  
Perkins, Norman, "Sherlies," Orpington, Kent.  
Thomson, H. A., 6, Tavistock Road, Croydon.  
Butcher, Capt. F. Claude, 18, Beacon Hill, London, N.7.  
Windle, H. W., 4, Trebovir Road, Earl's Court, S.W.5.  
Nangle, Lt.-Col. M. C., Frampton Mansell, Chalford, Glos.  
Bodley, C. A., Frampton Mansell, Chalford, Glos.  
Prewitt Frank, Home Close, Garsington, Nr. Oxford.  
R. Evans-Freke (The Hon.), Whipsnade House, Nr.  
Dunstable, Beds.  
Edwards, W. H., 74, Victoria Road, Hendon, N.W.4.  
Runnalls, T. J., 46, Avenue Road, Tottenham, N.15.  
Eager, A. E., 71, Rymouth Road, Rotherhithe, S.E.16.  
Tomasson, Major H., Woodthorpe House, Nottingham.  
Brook, Miss Mona P., West Hill Cottage, Oxted.  
Ash, M. F. G., Lower Birtley Farm, Nr. Witley, Surrey.  
Goffin, S., Buncton Cottage, Farnham, Surrey.  
Freeman, C. A., Carlton, Saxmundham, Suffolk.  
Way, J. D., Ashmede, Newnham, Basingstoke.  
James, C. R., Beech Tree Farm, Elmsted, Nr. Ashford, Kent.  
Hawker, Chas., Elm House Farm, Hawkhurst, Kent.  
Clements, B. F., 131, Napier Road, Gillingham, Kent.  
Broomhall, F. W., Icknield Farm, Letchworth, Herts.  
Johnston, Wm., Cowden Cowrie, Perthshire.  
Dunk, J. W. M., Manor House, Deaton, Nr. Newhaven,  
Sussex.  
Neville, Walter Alfred, 11, Carrown Road, Fentiman Road,  
London, S.W.8.  
T'wells, W. O., The Cottage, Birchanger, Nr. Bishop's  
Stortford.  
Sheridan, Maurice, "Haldson," Warmwell, Dorset.  
Clark, Wm., 104, Broadway, Bexley Heath.  
Rawles, R. T., Seven Barrows, Wareham.  
Worthy, Reg. Howard, Meadlands, Sway, Lymington, Hants.  
Jaques, A. V., B.Sc., 48, Hillside, Moulescoomb, Brighton.  
Carter, Harold, 6, Rochester Place, Elland, Yorks.  
Jones, John R., 126, Sovereign Road, Earlsdon, Coventry.  
George, Miss T., The Hall, Consett, Co. Durham.  
Eeslemont, Geo. G., M.B.E., B.Sc., Director of County Work,  
N. of Scotland College of Agric., Crown Mansions, Aberdeen.  
Peel, Everard, Embay, Skipton, Yorks.  
East, Miss M. C., The Firs, Heathfield, Sussex.  
Thompson, Ed., The Oaks, Littlefield Common, Worplesdon,  
Nr. Guildford.  
Gee, Harold A., Toll House Poultry Farm, Loughboro' Road,  
Belgrave, Leics.

Brazier, H., Hertford, Herts.  
Buisk, John M., 67, Pottery Street, Gallatoun, Kirkcaldy.  
Luck, T. H., The Forge, Milford, Surrey.  
Curwen, Miss Ethel M., The Crown, Long Crendon, Bucks.  
Thomson, G. D., The Moat, Knighton, Beds.  
Dewhurst and Whitelock, Nursery Farm, Caulms Wood,  
Dewsbury.  
Donaldson, Ralph Fenton, Westwood Poultry Farm, Tilehurst,  
Nr. Reading.  
Francis, Kenneth, Westwood Poultry Farm, Tilehurst, Reading.  
Thackeray, T., Poultry Farm, "Low Ludderburn," Cartmell,  
Fell, Windermere.  
Gibson, Mrs. G. L., "Kern Knotts," Ramsden Bellhouse,  
Nr. Billerica, Essex.  
Webb, Miss D., Sakubona, Headley, Bordon, Hants.  
Rayner, Wm., 16, The Green, West Melton, Nr. Rotham.  
Pearson, Andrew V., Bogmill, Fettercairn, Kincardineshire.  
Cox, Philip, The Gables, Coombe Dingle, Nr. Bristol.  
Dennis, Richard H., 30, Ferris Town, Truro, Cornwall.  
Smallman, Harold W., "Arcadia," Gammon's Lane, Wallingford,  
Herts.  
Drew, W. P., Oldswinford P.F., Stourbridge, Worcester.  
Wrightson, Fred, Plumtree Cottage, Midgery Lane, Broughton,  
Preston, Lancs.  
Skinner, Miss M., The Bungalow, Paynter's Lane End,  
Bedford.  
Dobson, R. B., Stretfield Poultry Farm, Bradwell, Nr. Sheffield.  
Gain, Edwin John, Woodlea, Longfield, Kent.  
Wray, J. W., 57, Frederick Street, Loughborough.  
Horton, H. S., 34, Ashdon Road, Saffron Walden, Essex.  
Wood, Wm. G., St. Winefrides, East Chiltington, Nr. Leeds.  
Gilchrist, Chas. Stirling, Holmston Poultry Farm, Ayr.  
Chance, F. W., Elmhurst, Wollescote, Stourbridge.  
Rice-Oxley, Mr. and Mrs. C., Forton, Mountford Bridge,  
Shrewsbury.  
Convent of the Assumption, The Convent Poultry Farm,  
Bournemouth.  
Wm. Cook and Son, of Orpington, Kent.

## Correspondence.

### THE PRESENT POSITION.

To the Editor of "Eggs."

Dear Sir,—In your comment of November 15th you have shifted your ground. It was you, not I, who said the penny and three-penny mixture sold at two pence each. Now you say they sold at three pence. That, however, was not the case I criticised.

Your bare repetition of your previous statements can hardly be taken as serious discussion. You reiterate the assertion that there is little fear of home production exceeding demand. I gave you three points of view from which to regard this matter; you have not accepted any of them. Consequently, what you mean by supply exceeding demand is "wrapped in mystery."

I have only this to say on the point; prices are regulated through supply and demand, i.e., by competition. You have already agreed (Editorial, November 1st) that this competition "inevitably works to one end—the approximation of prices to values." I assert that when demand "exceeds supply" prices rise above values. If we are to get "approximation of prices to values" these high prices must be cancelled by prices which are below values. How is this brought

about but by prices being forced down by "supply exceeding demand?"

You state that all my arguments are based upon competition, and you assume *Fair* competition. But you are not justified in assuming that. The terms *fair* and *unfair* are merely sentimental, and economic laws know nothing of sentiment. They recognise only cause and effect. *Free* competition is what you must assume. The effect of throwing a large number of foreign eggs into the market is just the same, whether they are sold for what they are or not—they depress prices. Interfere with the *freedom* of competition (as for instance, by "protection"), and you at once get different results.

Once, again, you say that I apply my arguments to the individual, but this is false. I have stated that while the individual has advantages of knowledge or methods over the industry in general he will benefit, but when such knowledge or method is general it does not count. All through my arguments I have been general, and not individual. I will not give you a further sample. You say that "Disease is a factor which renders the position of the Poultry Farmer somewhat speculative." Now, Sir, I claim that that is a statement which can only be applied to the individual. Disease does not render the position of the *industry* speculative. It is not I who apply individual arguments.

You assume that I will agree that any element of uncertainty is bound to be detrimental to an industry. But you overlook the fact that there is an element of uncertainty about every industry that has a competitive basis. Competition crushes out the weaker; therefore in every industry there is a fringe of those for whom the "element of uncertainty" is a very real presence indeed. If disease could be entirely eliminated this fringe would be there just the same. It is the product of competition. Disease might be the downfall of one who otherwise might survive, but his removal makes room for others who might have been cast by adverse conditions.

Turning to the letter in which Mr. Perks tries to be rude, there are three points calling for answer. He says that if we could get rid of the foreign egg we should be providing work for our countrymen. But how does he think the foreign eggs are paid for? They are paid for with other commodities produced by "our countrymen," and, therefore, they "provide work for our countrymen," if not for our fellow poultry farmers.

Concerning the "two blades of grass." It is obvious that, other things remaining the same, if the industry can produce two eggs in the time previously necessary to produce one, half the number of poultry-keepers can supply the demand, and the other half will succumb the "element of uncertainty" mentioned above.

One more point. I do not decry progress and research. I simply say that in the long run they confer benefit on neither producer nor consumer.

The position is simple enough. I will formulate certain premises. If those premises cannot be reported then neither can the conclusion:—

- (1) Capital is attracted by profits.
- (2) The greater the profits, the more capital is attracted.

- (3) The more capital is attracted the more commodities are produced.
- (4) The more commodities are produced, lower prices fall.
- (5) The lower prices fall, the more profits shrink.

The conclusion from these premises is that anything which tends to increase profits, no matter whether it be marketing of foreign eggs, protection, elimination of disease, research, poultry institutes, increased fecundity, or what not, necessarily produces the conditions of its own negation.

I repeat that the result of this play of forces is that the poultry industry will be as "prosperous" as other industries, and no more "prosperous." Capital flows wherever profits are greatest, and thus tends to produce an average level of prosperity, or the reverse in all industries.

A. E. JACOMB.

Forest Poultry Farm, Collier Row, Essex.

We are afraid we cannot follow our correspondent, and, therefore, to pursue the arguments further would be useless. We cannot agree with him that our statement that "Disease is a factor which renders the position of the Poultry Farmer somewhat speculative" is applicable only to the individual, and not to the industry. Whether the words "Fair" and "Unfair" in relation to competition are mere sentiment or not, the fact remains that if the fraudulent substitution of foreign eggs for the home product can be prevented, the English Poultry Industry will materially benefit. This substitution we call Unfair Competition. Why there should be any mystery about the statement that "there is little fear of the supply of home product exceeding the demand" we cannot understand. (Editor).

#### UTILITY SHOWS.

To the Editor of "Eggs."

Dear Mr. Newman,—With your permission, Sir,—just a few more lines in answer to Mr. Thompson's note. I do not intend to deal with his first paragraph, but would like to point out to Mr. Thompson, as far as misreading and lack of observation is concerned, the cap fits him. The Poultry Press, however, is not the source for passing personal remarks and using sarcasm, and I do not intend to follow it.

Mr. Thompson refers me to "Beauty with Utility's" remarks. There is a remark quite true, but, nevertheless, regrettable. If he has had any experience at all of showing any class of stock, from white mice to shire horses, he can if he will easily account for that. I have exhibited all kinds of stock, both large and small, for other people and for myself, and I know what it is to be beaten one day and win another with the same competitors in the ring. The simple fact is that condition, and the way an exhibit is "put down" counts for much, and, further, some judges give preference to one thing, while another judge gives preference to something else. That is in a business or a hobby—call it what you like—which is established, and every breeder and judge is more or less out for the same ideal, but with Utility Poultry it is a very

different matter. Judging a laying hen is still in its infancy, and although we can tell a good layer by handling, there are many things we do not yet know, and these factors will not be found in a day or a year. Example: The Sussex hen that Mr. Thompson speaks of, I consider this hen as much a freak of nature as was the cock-hen exhibited at Westminster and others.

I am not going to say that there is a man living who can select from a class of *ten*, let alone sixty or eighty, the hen that will produce the most eggs. It is impossible, but I do say that a good Utility Judge can select a good layer from a class of bad ones, and when he can select the good ones he can then go for the best breeder and the most typical, but the trouble is that out of the many judges we have they are the same as the ones above, as some favour capacity and some capability and general fineness of texture throughout, and others will leave out probably the bird with good capacity and capability, and go for type first. Personally I want all three, though I probably shall not always get it. What is wanted is to find out what is most wanted, and go all out for that WITHOUT GOING TO EXTREMES. In time we shall get this.

The next bit of Mr. Thompson's letter is really dramatical, in print, but not in effect. Those two lines about breeding Utility birds for the Utility show pen mean nothing without the remainder of my previous letter, and at the next session I shall appeal against the "conviction" which Mr. Thompson awards.

Does Mr. Thompson think it is not easy to breed hundreds of birds just to keep on for laying. I speak from practical experience, so I agree with him that further comment is unnecessary, and so far as the remainder of that paragraph is concerned I shall remain your pupil, Sir, as long as I can afford twopence per week for your paper, and a few odd shillings for your other works, without the advice of your correspondent.

When I talk about it being easy to produce layers, I do not wish to convey the idea that it is anything like sitting in a comfortable arm-chair, pressing buttons, but if an ordinary intelligent man, with a liking for live stock and the necessary capital to do it, wishes to breed hundreds of hens to lay enough eggs to make a reasonable profit, he can do it. I do not say it is easy for anybody to manage an enormous flock, and that is what counts on the commercial egg farm.

It would not be so easy if the man had to produce type and quality too. I know of a R.I.R. specialist, who is a marvel at egg production, but his birds, Oh, s'truth—Mongrels of the first water. He has reason to have the same antipathy towards Utility shows as Mr. Thompson. His birds are all shapes, colours, and sizes. I used to own such birds when I had "Egg Fever," but I had a bad attack of "Money Fever" later on, and producing eggs for breakfasts is nothing to be compared with producing eggs for hatching and hatching right stuff.

Probably, Mr. Thompson is satisfied with the former. I am not, and I think it is most amusing to go to some farms, and they show a bird with a rose comb, white lobes, long back and fan tail, and think because the bird has laid well it is a good Wyandotte, and next a bit of a bantamised affair, which they call a Leghorn. I think I can safely say that in our country to-day there are any amount of "egg manufacturers" who

cannot tell a typical bird from a dud, and work entirely on trap-nest records.

Talking on this subject is after the style of politics, and Mr. Thompson's views will only change with the times. And to-day I don't suppose he is any nearer my views than I am to his. I, therefore, beg to suggest a little public test through "Eggs" to help the N.P.I. Funds. Each will give a sitting of eggs to you to be sold to the highest bidder for the benefit of the funds, the loser to give a further sitting of eggs. The winner to be decided by either the number of bids or the highest bid. Let the sporting element of the public decide which is the most popular—"Bred to lay" or "Bred to Lay and Show."

Faithfully yours,

G. R. POOLE

#### To the Editor of "Eggs."

Dear Sir,—I bought an 80-chick Fireless Brooder early last Spring, and about the middle of March I placed 80 chicks in it. At the same time I placed 80 chicks under a brooder heated by oil. I had the Fireless Brooder in a cabin about 8 feet by six feet with floor lights and put the brooder close to the windows so as to get a fair light inside when the hay was taken away from the glass. I followed the maker's instructions, but the chicks did not enter the brooder at all freely. However, after a certain amount of trouble I got them to go in of their own accord. But the chicks did not come on at all well, and by the end of the first week I had lost about ten of them.

I then made the number up again, taking some from under the oil brooder. These chicks were doing very well, no loss at all.

The chicks in the Fireless were also bad to get out in the open air. Sometimes the first chicks to go back in the brooder would not go in the nest, but would stay just outside, with the result that the entrance hole would become blocked and about half of the chicks could not get in the brooder at all.

Following the maker's instructions, at the end of the first week I took the nest from the front of the brooder and placed it at the back. The chicks would not stay in the nest but crowded to the glass, with the result that nearly every time I went to them I found some smothered, so after losing about half of the chicks I gave it up and put the remainder under the oil brooder.

I would like to know whether any of the readers of "Eggs" have made a success of the 80-chick size, whether inside or outside, and if so the method they used. I have no objection to having another try if there is any prospect of success, but my experience last season was not very encouraging. I know of some who have made a success of the 40 chick, but none of the 80 size. I have to rear about 500 pullets every year, and I don't think the 40 size is any use to me.

Yours truly,

SMALLHOLDER.

## BREEDERS' SPECIALITIES.

### ALEXANDER'S PEDIGREE POULTRY.

W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**BOUGHTON via NORWICH.**

### E. BOSTOCK SMITH,

Member of S.P.B.A., P.R.S., and N.U.P.S.  
Breeder of the Highest Class Pedigree  
Utility Poultry.

"HEASELANDS," HAYWARDS HEATH, SUSSEX.  
Phone—Haywards Heath, 82.

White Leghorns, Light Sussex,  
White Wyandottes, Mendels, Black,  
Rhode Island Reds, S.C. Black Leghorns.

### Miss HARDMAN,

Member S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING.

White Wyandottes and Light Sussex.

All Pullets trap-nested, and only good  
winter layers kept for breeding.

### F. A. HULME,

Heathfield Commercial Egg Farm,  
HEATHFIELD, SUSSEX.  
WHITE LEGHORNS.

Large Flock. Egg average over 180, mated  
to FRANK SNOWDEN (direct). Cockerels  
from 240-egg dams.

Hatching Eggs, Cockerels, Breeding Hens,  
Pullets.

### P. N. SHELLEY S.P.B.A. and N.U.P.S.

Breeder of-Utility Trap-nested  
RHODE ISLAND REDS

1922 Pullets, on point of lay, from 15/-  
The Manor House, TITTENSOR, Stoke-on-Trent

FRAMLINGHAM.

Over 35 acres of exposed Grass Land.  
Speciality, White Wyandottes (Tom Barron)  
Only birds that have laid 200 eggs in pullet  
year and over 50 in second winter, bred  
from. Also White Leghorns (Barron's) and  
I.R.'s (Golden's). Eggs, 10/6; Chicks, £1  
per doz.

White Wyandotte Cockerels, January, 1922,  
from hens with over 60 eggs in third winter  
from £1 each. White Leghorns, 15s.

Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

Crofts' Poultry Farm, Corbridge,  
Northumberland (R. Harland, S.P.B.A.).

WHITE LEGHORNS.  
HENS (1920/1), direct from Wm. Cook and  
son, St. Mary Cray, Kent. hatched from  
222 egg hens, mated to cockerels from  
1921 to 238 egg hens. 1921 hens averaged  
201 eggs in pullet year. COCKERELS  
direct from Mr. Frank Snowden, hatched  
from 260-270 egg hens, mated to cockerels  
from 232 and 234 egg hens. (Brother of pens  
in "Daily Mail" and Harper-Adams' tests).  
Apply for Hatching from above stock, 10/6  
per 15; 50/- per 100. Day-old Chicks, 21/- per  
100.

### WHITE WYANDOTTES.

L. WILLIAMS.

Eastern Poultry Farm,  
GRANTHAM.

Speciality:

STAMINA AND SIZE OF EGGS

### G. W. MILLER,

Breeder of High Class Trap-Nested  
RHODE ISLAND REDS.  
WHITE LEGHORNS.  
LIGHT SUSSEX.

A Few Pullets for Sale in each strain.  
Inspection Invited.

MILL VIEW POULTRY FARM,  
TENTERDEN, KENT  
Five Minutes High Halden Station.

MAJOR E. P. WIDDICOMBE,  
S.P.B.A., N.U.P.S.,

Breeder of Highest Class Pedigree Utility  
Poultry.

White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks,  
Orders for Eggs and Day-Old Chicks now  
being booked.

SHIPWAY POULTRY FARM,  
TORQUAY, SOUTH DEVON.

### Miss N. B. MADDISON,

S.P.B.A., N.U.P.S.,

Dane Hill, Sussex.

### RHODE ISLAND REDS.

Winner of the S.P.B.A. and "Daily Express"  
Laying Test. First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.

EGGS & DAY-OLD CHICKS now being BOOKED  
All Trap-Nested Pedigree Utility Stock.

### QUAKER BROOK POULTRY FARM,

### WHITE LEGHORNS

### WHITE WYANDOTTES

### HOGHTON nr. PRESTON

### MELLIN & SKURRAY,

S.P.B.A., N.U.P.S.,  
Pastures Poultry Farm,  
Holton, Halesworth, Suffolk.

Specialist Breeders of Highest Class Trap-  
nested Utility Poultry.

R.I.Red (s.c.). White Leghorns.

White Wyandottes.

Black Leghorns.

### R. M. THORBURN, M.S.P.B.A.

The Kirk House, Traquair, Innerleithen.

Highest Class Utility  
WHITE WYANDOTTES.  
ANCONAS.

Hardy Stock, bred and reared among the  
Hills of the Scottish Border.

Trap-Nests Used Throughout.

Settings: 10/6 for 15 Eggs, Carriage Paid.

A Few Selected 1922 Cockerels, 15/- each.

### Miss ARGLES.

DAY-OLD CHICKS, bred from my famous  
White Wyandottes.

Twice top score, once third in all Ireland  
Laying Test in four years.

White Leghorns, Miss Edwards' splendid  
Laying Strain.

Cross-bred DAY-OLD PULLETS. Book now.

Anstey Poultry Farm, ALTON, HANTS.

Balsam Manor Farm. Partners: H. J.  
Bingley and A. W. McKenny Hughes. Greve  
Coeurs and Houdans, from 20/- doz. Newly-  
imported breeds with a future. Book now.  
Noires du Berry and Gatinaises. Settings,  
20s. doz. White Wyandottes, Black Wyandottes,  
White Leghorns, Silkie Wyandottes  
Cross, from 10/- doz. Agents for one of the  
largest poultry farms in France, we can  
obtain Black, White, and Grey La Bresse,  
Salmon Faverolle (Tete D'Hibou), La  
Fleche, and all other French breeds. Send  
for illustrated catalogues to Balsam  
Manor Farm, Balsam, Cambridgeshire,  
and please mention "Eggs."

### The MISSES RANSFORD, White Leghorn Stud Farm

All Birds Trap-Nested.  
All Birds on Free Range.

PERSEVERANCE POULTRY FARM,  
PENSFORD, BRISTOL.  
(Illustrated Catalogue on application).

### Rev. C. E. CARNEGIE, S.P.B.A.,

NORTHBOROUGH, PETERBOROUGH.

Stewart Thompson's Golden Barred Rocks.  
Cockerels from proved pen of 12 birds,  
12/6-15/- each. Settings booked for January  
next, 15/-, carriage paid. The strain which  
combines table and egg production.

Fawn Drakes, Wilson's direct.

10/6 each, carriage paid. Settings, 10/-  
carriage paid.

### White Wyandottes. TOM BARRON'S

STRAIN.  
All stock continuously trap-nested. A few  
1922 Cockerels. Dam's 226, 245, and 248 eggs  
in pullet year. Sire's dam 236 eggs.

Prices 20s. to 30s., carriage paid.

Orders taken for Settings and Day-Old  
Chicks.

Breeding Pens headed by some of "Lady  
Bountiful," 280 (230s.) eggs in pullet year.

Mrs. BURGESS, M.S.P.B.A., N.U.P.S.,  
WOODSIDE, TENTERDEN, KENT.

### G. RUDDLE,

The Poultry Farm, Tangmere, Chichester

Breeder of High Class Utility White  
Wyandottes. Awarded the medal presented  
by the Poultry Club to the pen at the  
Harper-Adams' Laying Test, possessing the  
best breed characteristics. Also finished  
4th in the Laying Competition.

Hatching Eggs from 12/6 per doz.

Catalogue on Application.

### Moor House Poultry Farm, TOTON. NOTTS.

High-Class Utility Poultry.

R.I.R., S.C. (Measures), Wyandottes  
(Hunters), W. Leghorns (Warwick Rogers).

Orders Booked for Eggs and Day-Old Chicks

A Few W.L. Cockerels, 10/- Each.

Proprietor: Mrs. LITCHFIELD, M.S.P.B.A.



**BREEDERS' SPECIALITIES.—Cont.**

Waterson, West and Brankston Marks Poultry Farm, Rettendon, Chelmsford.  
**EGGS FOR HATCHING.** White Wyandottes, White Leghorns, Rhode Island Reds, etc.  
 From stock recently inspected and selected by Mr. Tom Newman.  
 10/- dozen; 60/-, 100.  
**DAY-OLD CHICKS.** Double Above.  
 Orders now being booked.  
**TESTIMONIAL.**  
 Bromley, 22/3/22.  
 Chicks to hand this evening, all in the best condition. I am delighted with them.  
 E. BURCHETT.

**G. TALBOT, S.P.B.A.**

Breeder of High Class Trap-Nested Utility Poultry.  
 White Wyandottes, White Leghorns, Rhode Island Reds.  
 Orders for Eggs and Day-old Chicks now being booked.

**Beacon Dene Poultry Farm,**  
 Blackpool Road, Poulton-le-Flyde, Lanc.

**The LINES POULTRY FARM,**  
 TAKELEY, ESSEX, M.S.P.B.A.

Specialities: High Class Pedigree Utility Poultry, R.I.R., Sires Roucher direct from hen records 271 and 280; White Leghorns, Barron Padman, Hen records 246 to 260. Light Sussex and R.C. Black Leghorns. All reared on wide range and under ideal conditions.  
 Orders now being booked for Sittings and Day-Olds.  
 Enquiries and Inspection Invited.

**"BOOK NOW FOR CHICKS FROM TESTED BIRDS."**

S.C. R.I. REDS. PROGENY GREAT LAYERS.

MISS E. GIBSON, M.S.P.B.A.,  
 Glyn Coed,  
 Woodfield Avenue,  
 WOLVERHAMPTON.

**R. J. HUBBUCK,**

Member of S.P.B.A., N.U.P.S., and P.C.

**Pinehurst Poultry Farm,**  
**HEADLEY, HANTS.**

Pedigree Trap-Nested  
**LIGHT SUSSEX.**

**WHITE WYANDOTTES.**

Sittings, Cockerels, Hens and Pullets.

**Major DISNEY-ROEBUCK, M.S.P.B.A.**  
**Mrs. DISNEY-ROEBUCK**

Breeders of High-Class Trap-Nested Utility Stock.

**LIGHT SUSSEX.**  
**WHITE LEGHORNS.**  
**OROAD LANGSHANS.**  
 Hatching Eggs and Stock Birds.  
 Price List on Application.  
**HOO MEAVY POULTRY and DAIRY FARM,**  
 Near YELVERTON, S. DEVON.

**Mrs. GOODDEN,**

West Coker Manor, YEOVIL.

Buff Orpingtons, Light Sussex, and White Runner Ducks.

Buffs at Harper-Adams' Laying Trials unbeaten 3 consecutive years by any other Orpingtons.

Sussex Records include 315, 301, 205, 270, per bird.

**PLYWELL POULTRY FARM,**  
 S.P.B.A., N.U.P.S.,

**SPECIALIST BREEDERS of**  
 High Class Pedigree Trap-Nested Utility Light Sussex and White Leghorns.  
 Orders for Eggs for Hatching and Day-old Chicks now being booked.

Mating List Free.

**LYMINGTON, HANTS.**

**MID-ESSEX POULTRY FARM**

Ramsden Heath, Billericay.

**F. BIRD, M.S.P.B.A., Proprietor.**

S.C. R.I.R. Cockerels from hen with record of 81 eggs (non-broody), sire's date record 279 (also non-broody). Also W. Leghorns, ex Leghorns, W. 'Dotties' and Anconas. Trap-nests used.  
 Day-Old Chicks now being booked.  
 Particulars with pleasure.

**G. F. W. SCATCHARD,**

M.S.P.B.A., F.N.U.P.S.

White Leghorns, Black Leghorns, White Wyandottes, and Rhode Island Reds.  
 Every bird trap-nested, and only 12 birds bred from.

**Warren Poultry Farm,**  
 BIRKDALE, SOUTHPORT.

**FRANCIS J. MARSTON,**  
 S.P.B.A. and N.U.P.S.

Breeder of TRAP-NESTED UTILITY Poultry.  
 Rhode Island Reds, S.C. White Wyandottes, White Leghorns, Black Leghorns.

Sittings. Day-Old Chicks.  
 Stock Birds.  
**The BIDDENDEN POULTRY FARM,**  
**BIDDENDEN, KENT.**  
 Inspection Invited.

**C. E. WOODWARD,**  
 "South Downs," Durrington, near  
 Near Worthing.

Commercial Egg Farmer.  
 P.C. Medal Harper-Adams' for Type and First Grade Eggs.

**WHITE LEGHORNS.**  
 All Birds fed on "Marmite" and Cod Liver Oil and Best Foods containing the same mines for Hatchable Eggs.  
 Jan. Feb. Mar. Apr. May.

Eggs, per doz. 9/- 8/- 7/-  
 Only, per 100 70/- 60/- 50/-

No Replacements.  
 Cross-bred Eggs from March W.L. 1/- per doz. less.

All Correspondence to: G. B. BIRD.

**PLEASE MENTION "EGGS" WHEN ANSWERING ADVERTISEMENT**

**-a farthing a week for More Eggs!**

Doubling production of eggs is simply a matter of ensuring that the natural vitaminic elements are present in the daily ration. **SALUBRENE** is the only known product which supplies these vital mineral salts. Add **SALUBRENE** without delay, and watch results!

**SALUBRENE**

Obtainable from your dealer in 5d. and 1/3 packets, or we will send you a 7-lb. bag for 6/- post free. Write for free literature.

A simple organic product which adds invigorating and health-giving properties to the feed. It supplies vital salts, ordinarily missing and positively ensures better health and increased egg production. All seeing poultry farmers use "**SALUBRENE**." Its cost is infinitesimal and results beyond expectation—get some to-day.

**John Beharrell, Ltd.,**  
 118, WINCHESTER HOUSE, HIGH STREET, NUL

## CLASSIFIED ADVERTISEMENTS.

### FOR SALE. PULLETS.

#### WHY NOT HAVE THE BEST?

WHITE LEGHORNS, April-May, from my owned high fecund strain; 15s., upwards. 1921 Hens, clean through moult; upwards. Carriage paid. Approval. — J. C. Underwood, S.P.B.A., Reliable Poultry Farm, Sutton Bonington, Loughborough.

Hundreds 1922 Pullets, and 1921 Breeding cock, R.I.R.'s and LEGHORNS, Crowley, Boucher, Padman. Stamp.—Longley, Ash-Herts.

#### LIGHT SUSSEX PULLETS.

Hatched March-April, 1922. Bostock Smith direct. Dam's records over 200, mated to 1 cockerels. Good healthy birds, laying near, 12s. 6d., 20s. each, according to sturty; carriage paid.—Broxup, S.P.B.A., Morden, Margate.

1922 WHITE LEGHORN Pullets, T. Barron's or Bostock Smith's Pen 1 direct; April hatched; 12s. 6d. each; May, 10s. 6d. Carriage paid. Approval. — H. Teat, S.P.B.A., Ancaster, Grantham.

#### 10 PURE BRED R.I.R. PULLETS

February-March hatched, by sons of 306 egg hens; Boucher, direct from trapped and flock-recorded L2 hens only; any suitable for 1923 breeders. All in perfect health; free range reared; mature; from 15s. each. Fuller particulars on request.—Major Robert Lethbridge, Tiverton, Devon.

LIGHT SUSSEX Pullets, specially selected February and March hatched; Edenthschild strain; 17s. 6d. each.—Fullwood, Chapel Ash, Wolverhampton.

Pullets. 50 WHITE LEGHORNS (Padman), reared from well-known specialist breeders' stock; lovely lot of strong, healthy pullets; 75 per cent. laying; reared on Mr. Newman's Formulas. Full particulars given. — A. Woodward, Ivy House Farm, Denham, Bucks.

#### COCKS AND COCKERELS.

##### PEDIGREE STOCK COCKERELS.

February and March hatched W. WYANDOTTES, Barron's strain; fine healthy birds; February, 21s.; March, 17s. 6d. Pedigree on application.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenhorpe, Sheffield.

REV. SEYMOUR SHAW, Warcop, West-coteland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks all colours). Records to 269. Approval.

#### DR. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 25s. each, carriage paid; November and December. — Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

BUFF ROCK Cockerels, bred from stock supplied by J. H. Cooper, dam's record 225-238, February and March hatched, pedigree on application; 15s. to 30s. each. — Farrar, Brookroyd, Batley, Yorks.

Twenty Selected WHITE LEGHORN Cockerels; March and April hatched; bred from trap-nested hens; 12s. 6d. each. Particulars on application. Send for 1923 mating list, now ready.—Richardson and Ashton, Birley Spa Poultry Farm, Hackinhorpe, Sheffield.

Pedigree WHITE LEGHORN Cockerels (Parson's), from dams with records from 220-260; price 15s., 17s. 6d., 21s. each. — Simmons, Fairview Poultry Farm, Hem-bury Fort, Honiton, Devon.

### CARBERRY POULTRY FARM, STOCKBRIDGE, HANTS.

Stock Cockerels for Sale WHITE WYANDOTTES, RHODE ISLAND REDS, BLACK LEGHORNS and WHITE LEGHORNS; 10s. 6d., 21s. each, according to breed and dam's record. All with records from 234 to 277. Full particulars on application.

### R.I.R. COCKERELS, SPLENDID COLOUR.

A few fine healthy March hatched birds; 20s. each. Return carriage paid if not satisfactory.—Bryce, Meadow Bank, Siddington, Cheshire.

### BLACK LEGHORNS,

February and March hatched; Ingle strain; Cockerels, 10s., 15s., 21s.—Beaumont Booth, Wick Lane, Wickford, Essex.

### LINES POULTRY FARM, TAKELY, ESSEX.

Stock Cockerels for Sale. R.I.R. (Boucher direct), White Leghorn (Barron Padman), Black Leghorn and Light Sussex. All with high records and sired by pedigree birds. 10s. to 25s. each, according to breed and records.

Pure Tom Barron's WHITE WYANDOTTE Cockerels, March bred, from hen with winter records of 60 upwards; 15s. each. Also REDS, ANCONAS, LIGHT SUSSEX.—Scott, Helmingham, Stowmarket.

### BUFF ORPINGTON COCKERELS,

From L2 hens, sired Thomas's cockerel, brother, world's record hen; grand, vigorous birds; 15s. each. — Wheatley, S.P.B.A., Charnwood, Gloucester.

RHODE ISLAND RED Cockerels, April hatched; Bostock Smith direct; two guineas.—Mrs. Burnell Wedmore, Remenham Hill, Henley-on-Thames.

### WYANDOTTES.

WHITE WYANDOTTE Cockerels. March hatched, from daughters of 262 and 268-egg hens, by cock grandson of "Lady Eclipse" (301 eggs); price 21s. each.—Mansell, Kingston Sturt, Thame.

### SALE OR EXCHANGE.

Cockerels, bred from valuable stock obtained from Boucher, Bostock Smith, Burgess, Eden, and Hunt. RHODE ISLAND RED, LIGHT SUSSEX, and BUFF ROCKS, March and April hatched; 15s. each, or will Exchange for 1921 BLACK LEGHORN Hens (trap-nested).—Janaway, Cherry Tree Poultry Farm, Sanderstead, Surrey.

R.I.R. February Cockerels; Golden's strain; 15s. 6d.—Potton, S.P.B.A., Northview Poultry Farm, Canewdon.

Five well-developed March S.O. B.I. RED Cockerels, Crowley, Crowley - Boucher; reared under hardest conditions; guaranteed, from exceptionally high winter laying hens of large brown eggs; 21s., 25s. — Marchant, Anmer, King's Lynn.

W. WYANDOTTE and W. LEGHORN. Cockerels, March hatched, direct from Frank Snowdens, extra special pen No. 2, from Leghorn pen, were bred his American winners; Rhode Cockerel, February hatched from H. Paine's super pen; Australian Black Orpingtons, from Australorps Farm direct, from three guinea sittings. Hearson Coal Burning Brooder, 500 size; once used; cheap.—Frank Smith, East Peckham, Paddock Wood.

February, 1922, Cockerels, WHITE WYANDOTTES (Barron), R.I.R. (Crowley), fine healthy birds, reared Tom Newman's formulas; records sent; 25s. each, carriage paid.—Richards, S.P.B.A., Perslake Poultry Farm, Stoke Canon, Exeter.

### G. H. VENNER'S WYANDOTTES.

Splendid, vigorous, February and March Cockerels, bred from 245 record hen, 240s. eggs; also some from 286 record hen, 240s. Prices from 20s. each. — Venner, Shottendane, Margate.

### STOCK COCKERELS.

March hatched, 12s. 6d. each. BLACK LEGHORNS (Ingle's), WHITE LEGHORNS (Padman), BLUE ANDALUSIANS.—Ohanee, M.S.P.B.A., Elmhurst P.F., Wollescote, Stourbridge.

Few very fine WHITE WYANDOTTE Cockerels (Barron), February; 20s., approval. — Milestone Egg Farm, Patribourne, Canterbury.

WHITE LEGHORN Cockerels (February-March), from prolific hens; splendid birds; 15s., approval.—Milestone Egg Farm, Patribourne, Canterbury.

RHODE ISLAND RED Cockerels (Dr. Crowley's strain); bred from L2 birds; February hatched.—Copper, The Laurels, Padworth, near Reading.

### WHITE WYANDOTTE COCKERELS.

From L2 hens, sired by cockerel from 266-egg hen and cock from 290-egg hen; vigorous and healthy; 15s. each.—Alfred Wheatley, M.S.P.B.A., Charnwood, Gloucester.

### 300 ACRES FREE RANGE.

Stock Cockerels: WHITE LEGHORNS, April bred, from a 285-egg hen; sire's dam 296; £1. R.I.R., March, bred from a 260-egg hen; sire's dams 272; perfect type and colour; 15s., £1. Personal supervision. Satisfaction assured. — W. F. Bear, M.S.P.B.A., Acton, Sudbury, Suffolk.

1922 WHITE WYANDOTTE Cockerels, April hatched (Tom Barron's); 12s. 6d. each. Carriage paid. Approval.—H. Teat, M.S.P.B.A., Ancaster, Grantham.

## EGGS AND CHICKS. WATLINGTON POULTRY FARM, OXON. DAY-OLD CHICKS.

We are now open to receive orders. W. Wyandottes, W. Leghorns, Rhode Island Reds (s.o.), W. Orpington. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £3.

### LIGHT SUSSEX ONLY.

All pens mated to sires, dam's records from 200 to 284. Eggs from £2 to £3 per 100. Chicks from £5 to £6 10s. per 100. Illustrated Catalogue sent on application. —O. Frederic Preston, S.P.B.A., N.U.P.S., Wildhern, Andover.

### HATCHING EGGS.

Two year old WHITE LEGHORNS, mated 270-egg cockerels; 6s. dozen; 40s. hundred; carriage paid; order now for January onwards. —H. Chesterton, Chidingly, Sussex.

My Breeding Standards guarantee

### A SOUND INVESTMENT in

### HATCHING EGGS.

Trap-nest tested L2 Hens (big egg layers only), mated to Tested L2 Cocks and individual bred Cockerels. Reasonable prices. 10 per cent. reduction orders booked before January 1st. It will pay you to send NOW for FULL particulars. W. Wyandottes, W. Leghorns, Black Leghorns. —H. Rawlinson, Lynwood P.F., Horeham Road, Sussex.

LIGHT SUSSEX SITTINGS, from Hens of good type and prolific layers of large eggs; all trap-nested as Pullets, and now on free range; 8s. 6d. doz.—Capt. F. S. Pardoe, Bradley Agricultural School, Mitcheldean.

## HATCHING EGGS AND DAY-OLDS

WHITE LEGHORN and R.I. RED Eggs: 8s. Day-Olds, 16s. per dozen. Boxes, and carriage paid. Book now for delivery from January; first order for dozen eggs opened Tuesday morning post supplied free.—Miss M. Harrison, S.P.B.A., N.U.P.S., R.I.E.C., Claremont P.F., West Burton, Aysgarth, Yorks.

### CHICKS! CHICKS! CHICKS!

Book now for delivery, January 23rd onwards. RHODE I. REDS (Golden's), WHITE WYANDOTTES (Barron's); 16s. dozen, carriage paid. Cash with order.—Sam Norrish, Utility Poultry Breeder, Hebden Bridge.

### F. CAREY-BOUCH.

ELMSFIELD POULTRY FARM,  
OTTINGE, NEAR CANTERBURY.  
FLOCK AVERAGE OVER 180.

Specialises in WHITE LEGHORNS (Cam-Padman). Sitings from registered pens, 15s.; Sitings from general pen, 12s. 6d. Average over 207 recorded eggs. Day-Old Chicks from registered pen, 30s. doz.; Do. from general pen, 25s. doz. Order now.

## DAY-OLD CHICKS & BREEDING EGGS.

Pedigree, Trap-nested WHITE WYANDOTTES and WHITE LEGHORNS. Orders booked.—Culver House Poultry Farm, Chudleigh, Devon.

## PEDIGREE CHICKS.

Ready January 28th. WHITE WYANDOTTES, RHODE ISLAND REDS, LIGHT SUSSEX; 20s. doz., carriage paid. From high-class trap-nested Utility Poultry. Leghorns later.—A. Cole, S.P.B.A., Albert Road, St Austell, Cornwall.

HATCHING EGGS. From my stock winning Gold and Silver Medals at Harper-Adams. R.I. REDS, W. WYANDOTTES, and W. LEGHORNS. Large or small quantities. Low rates for contracts. — South Hants P.F., Romsey.

## EASTMAN BROS.

The Suffolk Poultry Farm, Hadleigh.

### HARDY PROLIFIC TRAP-NESTED STRAINS.

R.I.Red, White Wyandotte, Light Sussex, Buff Orpington, Barred Rock, Ancona, White Leghorn, Black Leghorn.

### RELIABLE EGGS

8s. 6d., 12; 17s., 26; 30s., 50; 55s., 100. Unfertilised replaced.

### STURDY CHICKS.

17s. 6d., 12 36s., 25; 67s. 6d., 50; 130s., 100. Live delivery guaranteed.

Our birds have been selected by the use of trap-nests for many years. Hardiness and High Laying Qualities are the characteristics of our strains. We have over 3,500 birds mated, and all eggs and chickens supplied are produced on our own farm. We guarantee satisfaction, and the fact that our customers come to us year after year, proves that we give it. Illustrated Catalogue Free.

LOW PRICES FOR LARGE ORDERS. or regular supplies. May we quote you?

Now Booking Eggs and Chicks from my Registered Pen WHITE LEGHORNS. Also R.I. REDS, LIGHT SUSSEX, and Cross-bred Day-Old Pullets. (All Trap-nested Stock). — Particulars, Rhymes, Northway, Tewkesbury, M.S.P.B.A.

## GUARANTEED DAY-OLD PUL- LET CHICKS ONLY.

LIGHT SUSSEX (Tom Marks direct) x Brown Leghorn (Street-Porter direct); 42s. doz., less 5 per cent. booked before Jan. 1st.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

SPECIMEN MATING. Boucher Hens, records over 220 large eggs. Mated tested 1921 cock, Boucher's direct. Dam 274 2½oz. eggs. Sire's dam 258, 260, 251 2½oz. eggs in three years. Eggs, 10s. doz. Chicks, 20s. doz. Other Pens, 7s. 6d. Also White and Black Leghorns, Barnevelders. List.—Miss Clark, Leafmore, Liss, Hants.

## WHITE AYLESBURY DUCK EGGS.

(Abbott direct); 1s. each. Less 5 per cent. booked before January 1st.—Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

### HENS.

WHITE LEGHORN Hens, 1921, Padman; good layers large eggs; 7s. each.—Hammer-ton, Kingley Green, Haslemere.

BREEDING PENS (1921). Few R.I.E. (Crowley); WHITE LEGHORN (Padman); and LIGHT SUSSEX for Sale; 7s. 6d. each to clear; splendid birds and egg records; some laying.—Limes, Poultry Farm, Takeley, Essex.

Over-Stocked. Three Utility WHITE WYANDOTTES, 1921; laid on average of 243 each; never broody; now in full lay. Also Unrelated Cockerel, shown three times—one first, two reserves. On approval.—William Skelton, Dunstfold, Godalming, Surrey.

## DUCKS AND DRAKES.

50 April-May, 1922, FAWN and WHITE RUNNER Ducks, Upjohn strain; bred from 250-egg drakes; well grown birds; laying or near laying; 12s. 6d. to 15s.—Worren Uplands Poultry Farm, Rotherfield, Sussex.

CHAMPION WHITE RUNNER Drake (Seymour Shaw direct); 12s. 6d. each.—Faulkner, M.S.P.B.A., Thornton Hough, Birkenhead.

Three pure-bred AYLESBURY DRAKES, fine birds; April hatched; 15s. each.—F. Francis, Mount Pleasant, Thatcham, Sussex.

F. W. RUNNER DUCKS, May, 1922, hatched; commenced laying; 9s. each; 1920 and 1921 Ducks; 6s. each.—Stratton, Latham Heath, Maidstone.

For Sale, 40 trap-nested FAWN and WHITE RUNNER Stock Ducks; hatched 1921, with individual records from 183 to 216 in 12 months. Would divide into breeding pens of five or six; prices according to records. Suitable Drakes for mating to above from dams with records of 24 to 299, at 20s. each. Can also offer Six Drakes from 314-egg dam at 25s. each. Duck Trap-Nests for sale.—Particulars from Hudley, Bryngomer P.F., Pontrhydyrun, near Newport, Mon. (S.P.B.A.).

B. DUNKERLEY, FREESTON, S.P.B.A. Offers pure WHITE RUNNER DUCKS (Taylor's), 1922 hatched. Naturally reared on grass and running water. Hardest possible open-air laying stock. Well grown and laying, or on point. 8s. each, £4 for pen of dozen picked birds. Carriage paid. No rubbish, as I have a reputation to maintain.—Higham Poultry Farm, Higham, near Colchester.

AYLESBURYS. Three 1922 hatched Drakes (Street-Porter) strain; £1 each.—King, Hallenbrook, Hanbury, Bristol.

## FIRST AND GOLD MEDAL BUFF ORPINGTON DUCKS.

Single Bird Test, Cheshire Section. WYANDOTTE, 224 first grade eggs, one second grade; 1st and special Eggs, Alton. Fertile eggs ready, none sold under £2.—Captain Heseltine, Ropley.

Seven AYLESBURY DRAKES (Street-Porter direct); May hatched; 12s. 6d. each.—Eccles and Briggs, Fanton Hall, Wickford, Essex.

## BUFF ORPINGTON DUCKS.

For eggs, meat and beauty. My pen at National Laying Test laid 1,017 eggs in 22 weeks (more than the best pen of pullets). Fertile eggs ready. — Captain Heseltine, Ropley.

1922 BUFF ORPINGTON Ducks and Drakes, April hatched (Cook, St. Mary Cray, direct); 12s. 6d. and 15s. each, carriage paid. Approval.—H. Test, M.S.P.B.A., Ancaster, Grantham.

## RABBITS.

Lester Spurgeon, Wistlers Wood, Wellingham, Surrey, breeder, pedigree giant Blue Beavers. Youngsters for sale.

## APPLIANCES.

### GALVANISED CORN BINS.

1 cwt., 2s. 6d.; 2 cwt., 4s.; 3 cwt., 5s. 6d.; 4 cwt., 7s. 6d.; hinged lids; carriage paid. Ludlow, Sheet Metal Works, Patricroft, nos.

Sample of the MIDDLESEX TRAP-NEST FRONT sent on approval, post free, 2s. 6d. User writes: "Just what I have been looking for, am very pleased with it." It fits existing nests. Inventor and Maker, Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramesden Heath, Billericoy, Agent Mack Cold Brooder. Vacancy for Pupil.

### WOGSBARNE "PUKKA" TRAP-NEST FRONT.

Completely open when set. No wires or other impediments. Set with one hand in second. Only one bird can be trapped at time. Price 2s. 9d. each. For Ducks, 3s. each. Carriage paid on a dozen upwards. Terms: Cash with order.—E. N. G. Wogsbarnes, Wogsbarnes Poultry Farm, Rotherick, Hampshire.

TRAP-NEST FRONTS, never fail; last life no; 2s. dos.; sold or money-back principle.—Bévan, Potters Heath, Welwyn, Herts.

## ROOFING FELTS

"Superfelt," Ashwell, Herts.

## WIRE NETTING

Galvanized. British only; stamp list. Superfelt, Ashwell, Herts.

## SUPERFELT

Builds vermin and draught-proof houses about boards; stamp for samples. testimonials.—Superfelt, Ashwell, Herts.

## GLASS SUBSTITUTE

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

## "ELECTRO-AUTOMATE"

You can almost see the Vitamines in the glass when using this lamp for testing; no series required; 60s. each, post paid.—Ford de Kusel, 1, Stenbridge Road, Anerley, S.E.20.

For Sale. Four HOT-WATER INCUBATORS, 144-egg size, new this year. £6 each, silvery worth double.—River Poultry Farm, Ag's Lynn.

## RELIABLE

60-EGG HEARSON INCUBATOR; perfect working order; £6. 60-EGG OYPHER, hot; £3 10s.—Enquiries, Richardson and Son, Birley Spa P.F., Hackenthorpe, Sheffield.

HEARSON INCUBATOR, 120-egg, in perfect working order; £9 10s., carriage paid. Apply, R. K. Lowrie, Walkersknowe, Jedburgh.

STANWORTH - SOOLE ANTHRACITE BROODER STOVE; excellent condition; only used six broods; £6, on rail.—Pye, Malls Egg Farm, Crawley Down, Sussex.

TWO H.C.B. UNIQUE HOVERS, 250 size, new last season; £4 each, on rail. Installing star brooders. — Teagles' Farm, Takeley, Essex.

Satisfaction Guaranteed. POULTRY HOUSES and APPLIANCES. made to any design. Estimates Free.—Machin, M.S.P.B.A. 72, Watlands View, Porthill, Stoke-on-Trent.

## THE "WOOLLASTON" TRAP-NEST FRONT.

(Patent Applied for)

It is so simple, efficient and easily set; can be used for Heavy or Light Breeds; is most workmanlike, and the cheapest on the market. Price 2s. 6d. each, carriage paid on six or more. Also Sets of Six Complete Nest Boxes, with Trap Fronts, Perches and Wall Clamps (no brackets required); 33s. per set. Made, used and proved for three seasons on my own farm.—H. A. Hall, M.S.P.B.A., Woollaston Hall, Wellingboro', Northants.

## MIXING TROUGHS.

Mixing the Mash is usually a Makeshift Business. Use one of my Troughs, and you will do the job and do it properly in half the time. Stout Galvanised Tank in a heavy timber frame, raised to convenient height for working. Indispensable to those mixing large quantities. 2ft. 6in. x 4ft. 0in. £3, carriage paid; 1ft. 6in. x 3ft. 0in., £2, carriage paid. Sides of both tanks 12in. high.—E. T. Lowton, Sheet Metal Worker, Haddenham, Bucks.

## MAMMOTH INCUBATOR.

NEWTOWN GIANT, 1,200-egg size, self-turner, Thermometers, Stove, complete; in perfect working order; £65, carriage paid.—Pailthorpe, Longdown, Exeter.

For Sale. HEARSON 250-egg INCUBATOR; only used three times; condition as new; all accessories; £15, for.—H. Salter, The Thorns, Edenbridge, Kent.

Four PHOENIX ANTHRACITE BROODER STOVES, complete, with hovers and pipes, 250 size; perfect order; £3 10s. each, cost £7 7s.—Beeches Poultry Farm, Mobberley, Cheshire.

PHIPPS' 250-EGG INCUBATOR for sale; perfect condition; price £7; a bargain.—Hoare, Somerset Cottage, Dudley Hill, Bradford.

For Sale, HEARSON INCUBATOR, 25-egg, £3 10s.; also HEARSON 60-egg, £7; both good condition.—Lowe, Lanivet, Bodmin.

Two GLOUCESTER INCUBATORS, 100, 150, self-turning trays; splendid condition; equal new; £12 the two.—Shaw, Carisbrooke Poultry Farm, Portishead, Som.

PHIPPS' 1922 HOT-WATER INCUBATOR, 30-egg; perfect condition; scarcely used; £4 10s.; carriage forward.—Bischoff, Sunhoney, Richmond Road, Wolverhampton.

GLOUCESTER INCUBATOR, 390-egg size, self turning trays, as new, £10.—Wurr, Paradise, Cheshunt, Herts.

One HEBDITCH HOT-AIR INCUBATOR, 390-eggs size; used one season, £12; and One HEARSON HOT-WATER INCUBATOR, 220-egg size, £15. Both complete in every respect, and perfect condition. Two GLEVUM HOT-AIR 100-CHICK HOVERS; excellent rearers; £2 each.—Dale Egg Farm, Lawshall, Bury St. Edmunds.

TAMLIN HOT-WATER BROODERS (100 size); £4 10s. each. HEBDITCH, £3 10s.; HEARSON ANTHRACITE STOVES, £4 10s.—Gordon, Coppy Poultry Farm, Beamish, Co. Durham.

30-Egg PHIPPS' HOT-WATER INCUBATOR; price £3. Also GLOUCESTER (100-egg); price £4. Both are in good condition.—Dovey, Clay Hill Lodge, Enfield.

SEVEN SYDENHAM HANNAFORD HOVERS, 100/150 chicks; 30s. each, or £10 the lot.—Taylor, Lower Lodge, Billingham, Sussex.

STANWORTH-SOOLE BROODER STOVES. Three for sale; in good condition; complete with piping, etc.; £6 10s. each.—Milestone Egg Farm, Patrikbourne, Canterbury.

## FOODS.

### DERBYSHIRE LIMESTONE GRIT.

2s. 6d. cwt.—Thornhill, Great Longstone, Derbyshire.

## POULTRY CHARCOAL

DIRECT FROM

### THE MANUFACTURERS.

A Large Sample Packet of "LATHAR COAL" (Regd.) for Chicks or Adult Birds sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal.—J. B. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5.

FINE SWEDES, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

MIXED GRIT. Oyster, Flint, Cockle, Crosshill; 5s. cwt., for; 8s. 6d., carriage paid, under 140 miles. Samples free.—Midland Grit Co., Stourbridge.

FINE SWEDES, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

## CEDAR LITTER.

Keeps vermin at bay; 12s. cwt. (16 bushels) Granulated Charcoal, 22s. cwt. All carriage paid. Also Dried Flies, Peat Moss, Grits, Meals, etc. Special quotation bulk quantities. Enquiries invited. Samples free.—Bygrave and Co., A well, Ware.

## MISCELLANEOUS.

### EDENMORE POULTRY FARM, HOOK, HANTS.

WHITE WYANDOTTES, large eggs, large birds, splendid records and stamina. Stock Birds, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The Young Stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Macdonald, Edenmore, Hook, Hants.

Mrs. J. J. HOWARD, Deans Croft, West Winch Road, King's Lynn, Breeder of WHITE WYANDOTTES, W. LEGHORNS, and LIGHT SUSSEX. Utility Strains only. Offers selected White Leghorn Cockerels, direct from Cooks, St. Mary Cray; March hatched; 21s. Also Pullets, May hatched; 10s. 6d. each. Orders now booked for 1923 eggs and Day-old Chicks.

CLIFFORD DE KUSEL, Poultry Consultant. Farm Visited. Reasonable charges. —1, Stenbridge Road, Anerley, S.E.20.



**WHITE WYANDOTTE COCKERELS,**  
March hatched, Rev. Birkett's strain.

**KHAKI-CAMPBELL DRAKES,**

Pettiphar strain, March hatched; 15s. each.  
—Mr. Banks, Poultry Farm, Chalk Street,  
Bettendon Common, Essex.

E.I.R. Stock Birds (Measure's Gold Medal strains direct); beautiful colour; February hatched; 15s.; splendid testimonials; once a customer always a customer. — Ekins, N.U.P.S., N.S.P.C., Grange Poultry Farm, Wellingtonborough.

**HOLYBOD. POULTRY FARM,** Hull Road, Cottingham, East Yorkshire. Telephone: 77 Cottingham. 1922, 7 awards, first, prize Cottingham Poultry Show, Sept. 21st. **WHITE LEGHORNS, WHITE WYANDOTTES.** Pure-bred Utility Birds. A limited number of Cockerels, March hatched; splendid birds; good type and stamina. Now booking order for Hatching Eggs and Day-old Chicks at Reduced Prices to suit the times.—M.S.P.B.A.

Seven **WHITE WYANDOTTE** Cockerels (Barron); 10s. 6d. each; from dams of over 200 eggs. Also six **WHITE INDIAN RUNNER** Drakes (Shaw); 10s. 6d. each, carriage paid.—A. Danby Wilkinson, Craven Cottage, Upwell, near Wisbech.

Miss E. A. BAYNE, Specialist Breeder of Finest Quality Pedigree Utility **WHITE WYANDOTTES**; good early 1922 hatched Pullets may be booked for delivery end of January; 31s. 6d. each. A few fine Cockerels left; bred from tested parents; 35s., 42s., 53s.—The Chalet, Stocksfield-on-Tyne.

Two 1920 **ANCONA** Cocks; cost two guineas; Darracott direct last year; 20s. each. 1921 Pullets, Wilson, Hurts, direct; 6s. 6d. each. 1922 Pullets, same, 8s. 6d. each.—Mrs. Brooks, Rushton, Cotebrook, Tarporely.

Send Stamp for Price List.—E. F. Christie, Thornton-le-Moor, Lincoln.—**BUFF ROCKS, WHITE WYANDOTTES, TURKEYS, KHAKI CAMPBELL DUCKS.**

50 **WHITE LEGHORN** Breeding Hens, March, 1921 (Soole-Metcalf); surplus to own requirements; 10s. 6d. each. Also few **WHITE RUNNER** Ducks (Taylor's); 7s. 6d. each.—Shaw, Carlsbrooke Poultry Farm, Portishead, Som.

**WHITE ORPINGTONS.**

Are quality birds for eggs, meat, and beauty. Write for list.—Captain Heel-tine, Ropley.

**GOOD STOCK AT  
REASONABLE PRICE.  
WHITE LEGHORNS.**

Padman strain. All carefully selected, bred and reared specially for egg production. Hatching Eggs, 5s. per doz.; 35s. per 100; Day-Olds, 12s. 6d. per doz., £4 10s. per 100; Pullets, 1922, £1 each; Stock Cockerels, £1 15s. each.—M. Colombe, F.Z.S., S.P.B.A., Newlands Egg Farm, Kidmore End, Oxon.

**WHITE ORPINGTON.** Four Pullets (February, 1922), W. Cook and Sons' best class direct; 20s. each. Two **WHITE LEGHORN** Cockerels (January, 1922), W. Cook and Sons' "Ideal" strain; 15s. each. One **BLACK BRESSE** (Ounslow-Piercy), Cock (1921), proved stock getter; perfect specimen; 20s.—Maxted, S.P.B.A., Teignham, Kent.

**BREEDING PENS.**

**BREEDING PENS.** Eight Light Sussex Hens and Brown Leghorn Cockerel; eight trap-nested White Wyandotte Hens and Brown Leghorn or E.I.R. Cockerel, as preferred. Also Stock Embden Ganders and Geese.—Mrs. Wilson, M.S.P.B.A., Minorea Farm, Denholme, Bradford.

**WHITE WYANDOTTE BREEDING PEN.** Eight Hens and unrelated Cock. Cam's strain; price six guineas, worth 10 guineas.—Ellinger, Sherbrooke, New Milton, Hants.

**RHODE ISLAND REDS** for Sale. Stock Cockerels from 21s. each; Pullets, from 15s. each.—Miss Hewson, Borrowdale, Stocksfield-on-Tyne.

When you want English or American Poultry Books try—Foster, 48, Blackwall Buildings, Whitechapel, London.

**LIGHT SUSSEX** Cock and Six Hens, Eden-Rothschild, from Bostock Smith; proved magnificent fertility and rearsableness; offspring now laying splendidly; £7 10s., complete; cock only £3 10s.—Bischoff, Sun-honey Richmond Road, Wolverhampton.

**DOGS.  
BEST GUARDS AND  
PROTECTORS.**

**AIREDALE** and **IRISH TERRIER** Puppies, eight weeks old; well grown; fashionably docked, perfectly healthy; satisfaction guaranteed; Dogs, £1; Bitches, 15s. Carriage Paid.—Round, Drayton, Belbroughton, near Stourbridge.

**LABRADOR.**—Lady Encombe has for Sale one Pedigree Bitch Puppy, by Mr. Quinton Dick's "Bauchory Don, ex Tress of Whitmore"; Don is sire of H.M.H. King's Wolstan Dan, etc.; Tress is a show bench winner, a good worker, and wonderful **WATCH DOG**. Whelped July 16th. Price, seven guineas; a bargain.—Apply, Lady Encombe, Cell Barnes, St. Albans.

**PARTNERSHIPS.**

**EXPERIENCED PARTNER**, either sex. Required on Poultry Farm; good prospects. Capable of extension. Good markets. Half share. Reasonable terms.—V., The Lodge, near Llandovery, S. Wales.

**PUPILS.**

**VACANCY** for Two Lady Pupils, with English Poultry Farm abroad, commencing January 1st. Opportunities given to visit Continental Exhibitions and learn French; moderate tuition and living expenses.—Box 199, "Eggs," 94, Farncombe Street, London, S.E.16.

**POULTRY FARMING.**—Miss Bennie, Baggownie, Kingcase, Prestwick, Ayrshire, offers pupils thorough training, all branches. Practical and Theoretical.

**Vacancy for RESIDENT LADY PUPIL;** moderate charges for board only. — Miss Beaumont, Woodville, Four Oaks, Birmingham.

**POULTRY FARMING.** — Vacancies for Pupils. Good Theoretical and Practical Training on several modern farms. For prospectus, apply, Preston, Wildhern, Andover.

**BUNGALOW FOR SALE.**

For Sale, **ARTISTIC BUNGALOW**, Hampshire; eight acres; suitable pig and poultry farm; adjoining station, pens, etc.; £1,850.—Box 198, "Eggs," 94, Farncombe Street, London, S.E.16.

**FARMS FOR SALE.**

**SMALL POULTRY FARM** (65 miles from London), 13 acres, 400 head; nice house, nine rooms; on bus route; 5 minutes from station (main line), telephone, telegraph. P.O. — Box 195, "Eggs," 94, Farncombe Street, London, S.E.16.

For Sale, with possession, near Ashford, Kent, **PASTURE**, holding 18½ acres, with well-built Brick Residence; eight rooms; modern conveniences; suitable as Poultry Farm. Price, freehold, £1,400.—Apply Box 203, "Eggs," 94, Farncombe Street, London, S.E.16.

**WANTED.  
MISCELLANEOUS.**

Wanted, Quotations for 30 dozen **FEB. TILE EGGS** weekly. White Wyandottes from flock of January, February, March, 1922 pullets, on free range, which have averaged 26 eggs per bird for nine weeks, October 6th to December 13th; mated to cockerels; dam's records 247 and 265. Also four dozen **K-Campbell Duck Eggs** weekly — Mrs. Lovegrove, Gratwicke, Partridge Green, Sussex.

**APPLIANCES.**

Wanted, Two **COAL BURNING BROODERS**, 1,000 Chick Size.—Hall-Dare, Rathfarnham, Co. Dublin.

"**UNEEDIT**" **HOT - WATER PIPE BROODER STOVE** and **REGULATOR** with or without pipes.—"Newlands," Kidmore End, Oxon.

Wanted, 50 **Trap-Nest Fronts**, also Large **Mining Machine** or bone cutter; state lowest price.—White, Bungalow Poultry Farm, Marton, Blackpool.

**SITUATION VACANT.**

**POULTRY-MAN** Wanted. Must be thoroughly experienced and capable of taking charge of any section on large breeding establishment. Good wages and prospects for right man. No application considered under five years' practical experience.—Apply, enclosing copies of testimonials, E. Bostock Smith "Heaslands," Hayward's Heath.

**ROBERT MILLER,**  
The Poultry House Specialist  
And Originator of Exchequer Leghorns



**MILLER'S PARADISE HOUSE**

For Twenty Years  
**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in design, quality and value. His thousand of customers proclaim them Best, Best, Best, every time. . . .

His Exchequer Leghorns are world-famous, as the Greatest Utility Breed extant.

Grand Early Hatched 1922 Cockerels now ready, on two days' approval: 15/., 35/., 50/., and 100/- each.

Beautiful Art Catalogue, post free, from  
— **ROBERT MILLER,** —  
DUNNY, SCOTLAND.

# CHAMPION POULTRY FOODS

## FOR EGG PRODUCTION.

	per cwt.
	s. d.
Champion Laying Meal	19 0
Sussex Ground Oats	22 0
A.I. Poultry Mixture (with or without Maize)	18 0
X.B. Mixture	17 0
Heavy Old Clipped Oats	18 0
Scotch Clipped Oats	16 0
No Dust. No Waste. Mixed and Well Cleaned by Special Machinery.	

### Hundreds of Testimonials.

Carriage Paid England and Wales.  
Scotland 2/- cwt. extra

Samples and Price Lists Free on application to:-

**Wm. BRINKLER & SONS, Ltd.,**  
Poultry Food Dept.,  
**5, CLAPHAM GRANARIES,**  
**LONDON, S.W. 4.**  
Telephone: Battersea 211.

BY  
YOU INSURE  
AND  
WHO LAY  
**EARLY**  
BOOKING  
SITTINGS  
BIRDS  
EGGS.  
FROM THE BEST STRAINS.

We are now Booking Orders for Sittings. Day-Old Chicks and Ducklings for the coming season in the following Breeds:- Barnvelders, Light Sussex, Wyandottes, Rhode Island Reds, Anconas, Black and White Leghorns, Silver Campines, White Runners, Khaki-Campbell, etc.

Price List Free.

**The NORTH DEVON POULTRY FARM**  
**Metherell Tower,**  
**BEAWORTHY, N. DEVON.**

PEDIGREE UTILITY.

STOCK COCKERELS AND PULLETS.  
WHITE LEGHORNS, WHITE WYANDOTTES.

S.c. RHODE ISLAND REDS.

I have a grand lot of Utility Stock Cockerels, bred from high fecund hens, with excellent winter records.

1922 Pullets (Laying or on point of lay).  
1921 Hens with Individual Records.

All Stock is typical of its breed, and is sent carriage paid, and or seven days' approval.

I am now booking orders for Eggs for Hatching and Day-Old Chicks. Send for my Detailed Price List which gives, full particulars.

**LINDSAY SCOTT,**

(Life Member and Fellow, N.U.P.S. and Member, S.P.B.A.),

**THE WORLINGTON POULTRY FARM,**  
**MILDENHALL, SUFFOLK.**

## K. E. FIELD-HART'S

# White Leghorn Eggs

○	LARGE, FERTILE, HATCHABLE.	○
○	7/6 per dozen,	○
○	£3 „ 100.	○
○	£27 „ 1,000.	○

From Carefully Culled Two-year Hens, mated to cockerels from hens with trap-nest records of from 67 to 79 in three winter months.

**The Limberlost, Heathfield, Sussex.**

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches, 1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.

Trap-Nesting Record Books, 6/-.

Hatching Record Books, 7/6 and 11/-.

Stud Books for Fowls, 6/-.

Incubator Records, 1/3 doz.; 7/- per 100.

Backyarder's Complete Record, 8d.

Specimens Free.

**RIPPIN & BAKER,**  
**THE NEWARKES, LEICESTER.**

**JOHN GODFREY & Co, Ltd.,**  
**STAMFORD,**

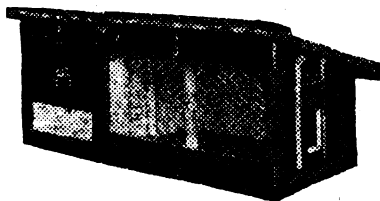
For Up-to-Date

**HOUSES and APPLIANCES.**

TRY US.

Known throughout the County as makers of the best quality only.  
**PRICES REASONABLE.**

Satisfaction Assured. Catalogues Free.



Registered Trade Mark.

**No. 3 Size**

# Fireless Brooder.

— 60-80 chicks up to six weeks old. —

Constructed of 3-in. actual thickness timber:

Brooders built for indoor or outdoor use.

## REDUCED PRICES:

Hover only (illustrated) ... **£4 0 0**

Complete with Scratching Shed **£7 15 0**

Carriage forward.

**Write for New Illustrated Catalogue, post free.**

We also manufacture smaller and larger Fireless Brooders than the above, and Trapnests and Egg Boxes.

## WORSSAM & ABBOTT,

'Phone: Chertsey 8.

**Pyrcroft House, CHERTSEY.**

(3)



## INSURANCE

Have you insured your Poultry and Plant against Fire, Theft, Storms, etc.?

IF NOT,

have you considered the consequences of such a loss and what it would mean to you and your business?

WHY NOT

see to it at once, and do not delay any longer, but write for Proposal Forms and Rates of Insurance, etc., which will be sent post free by:—

**The Advertisement Manager,**  
**94, Farncombe Street,**

**S.E.16.**



# MILK

Providing you use the right quality is the best food for poultry of all ages, and gives better results in every possible way than Fish or Meat Meals. The BEST is always the Cheapest, poor quality milk is dangerous to use, and should be avoided.

GET

## MILKO MILK POWDER,

The Finest Dried Milk on the Market. Used on many of the largest poultry farms in the country. Tons sold every week.

All who mix their own foods should order NOW, as the demand is great. 1 cwt., 28/-; 5 cwt., £6 15s.; 10 cwt., £13; 1 ton, £25. Free on Rail for Cash, with Order.

MILKO LAYING MEAL, a Complete Food Ready for Use, 21/6 per cwt.; £4 4s. per cwt., carriage paid.

## MILKO FOOD CO.,

FLEET HOUSE, FLEET STREET, LONDON, E.C.4.

### COCKERELS.

W. Wyandottes, Wilts' Silver Medal; W. Leghorns, 5th. National Egg Laying Test, 1922; L. Sussex, Miss Dawson's Gold Medal February and March hatched. Strong, Vigorous Birds.

All birds offered have been inoculated with latest American Serum as a preventive of disease.

Price, 32s. Each, carriage paid.

**Mrs. KNIGHT, S.P.B.A., N.U.P.S.**  
**ODSTOCK, SALISBURY.**

### "ZENITH TRAP-NEST"

As used by the Large Poultry Keepers. Also in the Premier Laying Competitions. FRONTS, 3/- each, carriage paid.

### WIGNALL,

Poultry Appliance Builder,  
LONGTON, Near PRESTON.

## HIGH PEDIGREE COCKERELS

Individually Bred.

## WHITE LEGHORNS.

	Dam.	Sire's Dam.	Feb.	Mar.	Apr.
275 24oz. egg.					
Bentley Non-Such					
253 in 48 weeks at					
1920 National					
Heaviest layer in					
the whole test	282 24oz.				
	egg by 264	42/-	35/-	30/-	
474 24oz. egg					
in two years	287 24oz.				
	egg by 295	35/-	30/-	27/6	
461 24oz. egg					
in two years	287 24oz.				
	egg by 295	32/6	27/6	25/-	
244 24oz. egg					
	282 24oz.				
	egg by 264	25/-	20/-	15/-	

Also S.c. Anconas and S.c. Rhode Island Reds.

Exceptionally fine specimens, combining  
HIGH FECUNDITY with STAMINA.

Few TESTED COCKS, 1921, Trap-Nested  
HENS, and 1922 PULLETS for Disposal.

I guarantee every Egg, Chick and Stock  
Bird to be laid, hatched and reared on my  
own farm, which is the leading Pedigree  
Trap-Nested Farm in North Yorks.

Satisfaction Assured.

**ROWLAND COOKE, S.P.B.A., N.U.P.S.**  
**KELDHOLME POULTRY FARM**  
**KIRBYMOORSIDE, YORKS.**

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris,  
NEWBURY.

Fertile Eggs, 7/6 doz.; 55/-, 100.

Free Range Cockerels and Drakes, 15/-.  
Hundreds sold last season.

1921 Hens, 10/- 1922 Ancona Pullets only  
10/- each.

Breeds kept: Langshans, Minorcas, Fave-  
rolles, Houdans, Anconas, Campines, Wyandottes,  
Light and Speckled Sussex, R.I.R. Brd. Rks.,  
Buff and Brd. Rks., Bl. W. and Brn. Leghorns,  
Buff and White Orpingtons, Aylesburys,  
Khaki-C's, Buff Orpingtons, and Runners (both colours).

## Wilson's Poultry and Duck Meal. PRICE REDUCED.

£18 ton. 17s. cwt., f.a.r. Bags free. Cash with order.  
Carriage Paid. Price and Sample Post Free.

**JOHN C. BANNISTER & CO., Ltd.,**  
Easingwold, YORK.



"UP-TO-DATE"

BOXES

(Wooden).

For EGGS  
and Chicks  
are Second  
to none and  
have been

Officially passed by all Railway Companies,  
and are guaranteed to comply with their regulations.

Illustrated List Free.

Special Discount to S.P.B.A. Members.

**W. & T. MARKHAM, S.P.B.A.**  
(Dept. A.),  
QUENIBOROUGH, LEICESTER.

### BEAUTY — with — UTILITY.

Govville Bungalow Poultry Farm, Burtons,  
HOBLEY, SURREY.

**J. S. FENWICK, P.C., N.U.P.S., S.P.B.A.**  
Member of Poultry Club Utility Committee.  
Breeder and Successful Exhibitor of High  
Class Utility Poultry.

White Wyandottes. Black La Bresse.  
Light Sussex. White La Bresse.  
Grey La Bresse.

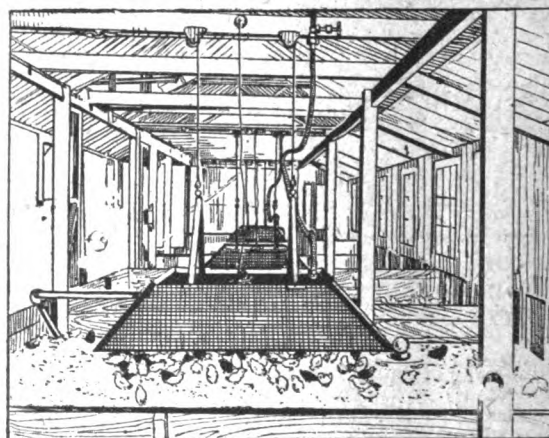
Also Exhibition Croad Langshans and  
Black Sumatra Game.

Utility Breeding Stock, selected by W.  
Powell-Owen, Esq. Nearly all pens trap-  
nested. Second with Wyandottes, S.P.A.  
College, Eye Winter Laying Test, 1922.  
Over 200 prizes and awards in 15 months.  
all the Leading Shows.

Poultry Club Utility Challenge Cup was  
four times, also Silver and Bronze Medals.  
Handsome Illustrated Catalogue free on  
application in mid-December.

Sitting of Eggs, Day-old Chicks, and  
Limited Number of Stock Birds for Sale.

## THE PURLEY BROODER



OLYMPIA  
STANDS  
149 & 150

OLYMPIA  
STANDS  
149 & 150

The Scientific Solution of the Poultry  
— Farmer's Greatest Problem —

WRITE FOR ILLUSTRATED PAMPHLET TO

**RICHARD CRITTALL & CO., LTD.,**  
43, BLOOMSBURY SQUARE, LONDON, W.C.1.

# E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**White Wyandottes, Rhode Island Reds, White Leghorns**

ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.

## STOCK COCKERELS.

Bred from selected Hens with 2, 3, 4 and 5 years complete records by sires bred from proved L2 birds.

*Full Pedigree with every bird.*

Pullets all ages from 12/6.

Recorded Breeding Hens.

## COMPETITION.

Should Cause a Great Reduction in Prices in 1923.

PAGES DOWN. FOOD COSTS DOWN.  
Laid Eggs in March (wholesale) will be more than ONE PENNY each.  
EN WHY SHOULD 1923 Prices be asked for Sittings and Day-Old Chicks.

## WHY? WHY? WHY?

propose to LEAD THE WAY, and enable holders of "EGGS" to obtain Sittings and P.O. will bring you my Mating and Price List.

R.I. Reds, Light Sussex, White Wyandottes, Black and White Leghorns, Barnevelders.  
Two-year-old Stock Hens, Stock Cocks & Cockerels are from the best breeders in Great Britain.

Every Bird Trap-Nested for Winter Records.

Approved by Ministry of Agriculture, for Training of Pupils.

Many One Gentleman Pupil January 25. Many Testimonials.

## T-COL. A. G. THOMAS,

Pedigree Poultry Farm,  
BURGESS HILL, SUSSEX.

Member Poultry Club, S.P.B.A., B.R.I.R.C.  
President, Hayward's Heath Feather and Fur Society.

## COD LIVER OIL and CONDIMENT of COD LIVER OIL and MALT EXTRACT.

Best Norwegian Cold Drawn Pure Oil.  
Half Gallon, 4/-; One Gallon, 7/6.

Tin Included.

Condiment Ready to Blend into Mash.  
No. 7/6. Cwt. 55/- All carr. forward.

Condiment is a meal equally impregnated with the Oil and Malt, forming a smooth ingredient that will not go lumpy.  
4lb Sample, 3/- per parcels post.

## DOBBIE & CO.,

Food Specialists.

Leatherley Works, LEITH, N.B.

(Established 1870).

My Two Entries in the Twelve Months' INTERNATIONAL LAYING COMPETITION, 1921-1922, at MISSOURI, U.S.A., have been astonishingly successful.

My FIVE W. WYANDOTTES laid 1,281 (average 256 per bird), which is a higher average than ever obtained by any pen of any breed in any English Competition, and thus won first prize.

My W. Leghorns won third prize and first Individual Leghorn Prize.

The above two entries won four Silver Cups, six Cash Prizes, and 50 Prize Ribbons.

In English Competitions, with White Leghorns only, my birds have won many prizes, and proved remarkable as layers of first grade eggs.

**HARPER-ADAMS.** 1st and 6th and Bronze Medal.

Northern at Burnley, 2nd prize

"Daily Mail" Test, 15th prize

100 White Leghorn Cockerels from 21/- each.

And a few W. Wyandottes at 42/- on Approval. Carriage Paid.

My Leghorns won all first in S.P.B.A. Stock Test, 1918/1919.

My Leghorns are much larger than most Utility strains, and many of them would win in Utility Shows.

List Free.

**WARWICK ROGERS,**  
ROSE HILL, MARKET DRAYTON, N.S.

**Mrs. CHARLES CARTWRIGHT,**  
S.P.B.A.,

**Welland Valley Poultry Farm**  
SEATON, UPPINGHAM.

Having mated her breeding pens, can offer a few Ancona, White Leghorn and Light Sussex Hens or Pullets at 15/- and 21/- each, or mated Breeding Pen of Six Birds for £4 5s. 6d.

Also a few White Runner Ducks at 7/6 each (Taylor's Strain).

All the above carriage paid, England and Wales.

Spring List out 21st December.

Please send your Name and Address, and it will be sent you.

Farther Particulars from the Manager.

**Mrs. ATHOL STUART, M.S.P.A. & N.P.S.**  
Boxmoor, Herts.

W. Wyandottes. Cam and Tom Barron, both direct.  
R. Island Reds (s.c.). Boucher, Crowley, and Measures, all direct.  
Light Sussex. Tom Marks direct.  
W. Leghorns. Tom Barron, direct.  
Black Leghorns. Burn Murdoch, direct.  
White Orpingtons. Cook, direct.

J. F. T., of Merthyr Tydvil, writes, 25/5/22.  
"Of 90 eggs received from you I hatched out 82 chicks—four clear, two added, two dead-in-shell."

EGGS: 21/-, 15/-, 12/6 doz.  
CHICKS: 42/-, 35/-, 30/- doz.

5 per cent. Discount on all orders booked before January 1st.  
Catalogues sent and enquiries answered by return.

**R. LAVALLIN PUXLEY,**  
Windyridge Egg Farm,  
WOODCOTE, OXON.

Now booking Sittings from finest trap-nested

WHITE WYANDOTTES.

Winter records: 40-90 (all 12) year flock average 192, large eggs; mated finest pedigree cockerels.

BLACK LEGHORNS.

Finest Selected Winter Layers (Ingles' strain), mated to superb males (Forges).

From 10/- per 12 37/6 per 50.

Few Magnificent Cocks, Cockerels and Pullets for Sale.

N.B.—All my own stock to be reared from above pens.

Quotations for Quantities.

## "MULTEGG" Laying—Meals

Are producing astounding results, and the reason is not far to seek. They are IMPREGNATED by a perfect system, which assures a positively uniform distribution of **COD LIVER OIL.**

They are manufactured from the same quality ingredients as are so persistently advocated in "Eggs" week by week, namely, the BEST. This is the "MULTEGG" standard, past, present, and future.

"MULTEGG" Intensive Laying Meal, contains Alfalfa	per cwt. 22/-
"MULTEGG" Laying Meal	21/-
"MULTEGG" Dry Mash	19/-
Sussex Grounds Oats, 95 per cent. pure Oats	20/-

Cash with order. Bags Free.  
Carriage Paid to nearest Railway Station or to your door if within railway delivery area.

Therefore your first cost is your last cost. Interesting Pamphlet, Price List, and Samples of all "MULTEGG" Specialities, post free, on application.

5 per cent Discount on all orders received through the S.P.B.A.

**R. SMITH & SON, S.P.B.A.,**  
SPECIALISTS IN POULTRY FOODS,  
Queen Street Granaries,  
HEMEL HEMPSTEAD, HERTS.



A Small Picked Flock of WHITE WYANDOTTES, with undoubted Stamina and Unequally Consistency.

WINNERS OF AWARDS FOR SEVEN CONSECUTIVE YEARS AT HARPER-ADAMS' COLLEGE TRIALS.

AN ACHIEVEMENT NEVER ACCOMPLISHED BY ANY OTHER BREEDER.

Winners of Silver Medal, Harper-Adams' College, 1922.

Winners of First-Class Certificate, and finished fifth, Harper-Adams' College, 1921.

Winners of First-Class Certificate, and finished fourth, Harper-Adams' College, 1920. This pen of birds, No. 61, laid 171 oss. over and above the average of 2 oss. for every egg laid, and was considered by other competitors to be the best pen of Wyandottes in the Trials.

Single Pen 26. Winner of First-Class Certificate, and finished third in value, fourth in weight, with 260 eggs, Harper-Adams' College, 1920.

Single Jen 10. Winner of Second-Class Certificate, with 249 eggs in 44 weeks at Harper-Adams' College, 1919.

Winner of First-Class Certificate at Harper-Adams' College, 1918, with records up to 253.

Winner of First-Class Certificate at the National Laying Trial, Bentley, 1918.

Winners of Bronze Medals, Harper-Adams' College, 1917.

Pen 98. The World's Best by Test Wyandottes. Winners of Gold and Silver Medals, and Supreme Champions in the one and two years' Laying Trials at Harper-Adams' College, 1915-16-17. Six birds laid 1,513 eggs in 12 months, an average of 252 eggs per bird, and a total of 2,322 eggs in two years. This pen laid more eggs in two winter months than any other seven pens in the same section put together. Also Breeder and owner of the only pen of Wyandottes in the "Daily Mail" Trials that have not laid a Second Grade Egg since weight of egg was fixed at 2 oss. Unfortunately, one bird died at the commencement of Test.

Reports show that my clients occupy prominent positions both in England and America.

A few Good Breeding Hens for Sale the last week in April. Also a few good Cockerels, for immediate delivery, all bred from individual hens with records over 220 eggs in 48 weeks ("Official"), and not less than 240x. egg. Hen hatched and reared, and never had a minute's sickness in their whole life.

They are well matured, and just as fit as ripe plums.

For full particulars you can either come or write.

EDGAR WATSON,  
Gate House Farm, Earby, Near Colne, LANCs.

## MUSTARD FOR POULTRY.

Nature's Vegetable Tonic for Winter Months warrants the outlay by larger Egg Yield.

2 lb. 2/8, 4 lb. 4/4, 9 lb. 9/-, per Parcels Post. 36 lb. 25/-, 55 lb. 36/-, carriage paid by rail. Cash with order. "Poultrykeeping for the Million in the British Isles," free on request.

**DOBBIE & CO.,**

WAVERLEY WORKS, LEITH, N.B.



The  
**S.P.B.A. BADGE.**  
Gold Letters on Blue Enamel.

1/- post free.

TOM NEWMAN,  
The Beches, Rudgwick,  
HORSHAM, SUSSEX.

## COCKERELS.

We still have a few magnificent, early hatched birds, in both White Wyandottes and White Leghorns, individually bred from high fecund hens, at

**21/- to 63/- Each.**

Also a few 1921 hatched White Leghorn Cockerels, full brothers to our Burnley Winners (Championship Section), at

**30/- to 50/- Each.**

All Stock Sent on Approval.

This Year's Successes include:—

1st at Burnley (Championship Section), White Leghorns.

2nd at Harper-Adams (Illuminated Section), White Leghorns.

2nd at National (White Wyandottes).

2nd at Midland (White Wyandottes).

7th at Harper-Adams (White Wyandottes).

## HATCHING EGGS AND DAY-OLD CHICKS

now being booked.

Price List and Further Particulars on application.

## S. & J. PARSONS,

The Poultry Farm, Musbury, Devon.

Try us for your WET AND DRY MASHES, made to your own requirements.

We offer the following:—

	per owt.	s. d.
NEWMAN'S POULTRY MASH	15	0
MIDDS	11	0
BEAN BROAD	11	6
BEAN ORDINARY	8	6
MAIZE GLUTEN FEED	12	0
SUSSEX GROUND OATS	20	0
CLOVER MEAL	18	0
ENGLISH CLIPPED OATS	16	6
Special Line Best MEAT MEAL	21	0
GRANULATED CHARCOAL	20	0

Everything for the Poultry Keeper kept in Stock.  
Bags Free and Free on Rail. Cash with Order.

**DRAKARD & CO., Ltd.,**  
Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

## "Puzzled."

As to large or small units are you in either case you must use the Best at the lowest possible price—a sound why you should come to us.

Newman's Laying Mash	...
Newman's Breeding Mash	...
Maize Germ Meal	...
Maize Gluten Meal	...
Maize Gluten Feed	...
Maize Meal	...
Kibbled Maize	...
Wheat	...
Oats (Scotch)	...
Broad Bran	...
Fine White Middlings	...
Ordinary Middlings	...
Sussex Oats	...
Limestone Grit	...
Cockle Shell	...
Peat Moss	...

Bags Free. Carriage Forward.

Also "Nitrophos" and "Bycolla" Meal, Meat, Biscuit, Clover, Alfalfa etc., etc.

## FRANK SHEARN & CO., Ltd.

MIDSOMER NORTON, SOM.

'Phone 51.

## ANCONAS.

EGGS . . . . . that will Hatch.  
CHICKS . . . . . that will Live and Lay.  
PRICES . . . . . that are reasonable.  
CATALOGUE . . . . . that is sent free.  
SATISFACTION assured, if you get this "Homeatist."

**VICTOR P. WILLIAMS,**  
Homeatist Poultry Farm, THE DOWN, REDIAL, SOM.

The value of Poultry can only be recognised when fed on properly proportioned food.

Therefore send to us to-day for Price List and Samples of the

## "WILLOW" POULTRY FOODS

Our Complete Laying Meal will stand any test for Purity.

Special Discount to S.P.B.A. Members.

Sole Agents for Scotland for Ibbotson's Poultry Appliances.

Note Address:—

**Falkirk Poultry House Co.,**  
FALKIRK and MILNATHORT.

Telephone 76.

**BARNEVELDER PULLETS.** Also Good Breeding Pens of 20-21 Bantam Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other varieties. Also all kinds of Water Fowl, Fantail Pheasants, White, Black Winged Blue and Specier Pea Fowl, Partridges, etc. sent Threepence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.** Many Testimonials as to Enormous Success.

## THE SURREY VALUE CO.,

REDHILL, SURREY.  
For Poultry Houses and Appliances. Timber, Galvanised Iron, Asbestos Sheets. Sole Sussex and Surrey Agents for Sydenham Hannaford's.

**PIONEER HOVER and CYCLE HATCHER** Inspection Invited. Satisfaction Guaranteed.

Let us quote for your Requirements.

Catalogues Free.

'Phone 24.

**KHAKI CAMPBELL DUCKS.**—FIRST and GOLD MEDAL at the National Laying Test, 1921-22—1,183 Eggs.

**BUFF ORPINGTON DUCKS.**—Our Pen is now Leading its Class at the National Laying Test, 1922-23.

**PELLING PEDIGREE POULTRY FARM, HAYWARD'S HEATH.** Miss BARBARA RAYE (Managing Partner).

## BAD WEATHER COMING.

But it need not trouble you if your fowls are in "THE DALES" HOUSES.

Best of Materials, Best Workmanship, Best Value.

THE DALES POULTRY FARM, S.P.B.A.,

WRITE FOR LIST.

SYSTON, LEICESTER.

## COOKS' OF ORPINGTON

(under the direction of W. H. Cook, England's foremost breeder, judge and expert), only send out hardy and reliable Pedigree Stock on 4 Clear Days' Approval.

**UTILITY** Pullets for Shows and Laying Competitions or your garden offered, at prices to suit all requirements, from 21s. each. Also Topping Cockerels in all popular varieties from 25s.

Whatever you are wanting, write us: our free advice and help are at your disposal. If able, visit our Farm to select your own Stock. We can show you lots to interest you. Over 5,000 Utility Ducks and Poultry actually in stock. All get W. H. COOK'S personal attention and guarantee.

Eggs for Sitting guaranteed fertile from 400 pens, at 21s. per dozen.

Export orders to any part of the world at our risk.

Full List, with Hints, Post Free.

**W. H. COOK, LTD.,**  
"Cooks' Poultry Farm,"  
**ORPINGTON, KENT**

Mrs. PIERCE-GROVE, M.S.P.B.A.,  
N.U.P.S., Stoke Court.

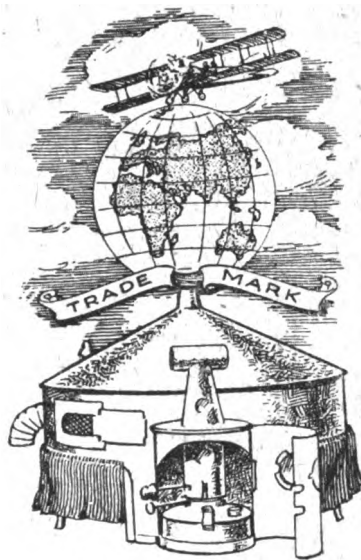
Breeder Utility White Leghorns and White Wyandottes.

DAY-OLD CHICKS AND EGGS FOR HATCHING.

Now Booking Orders for Coming Season. FOR SALE.

Selection of First-Class Pens 1921 WHITE LEGHORN HENS, finest condition, just coming on to full lay, mated to unrelated Pedigree February Hatched Cockerels. Limited Number of splendid pedigree White Wyandotte and White Leghorn Cockerels.

Inspection invited of my up-to-date egg farm, built up from T. Barron's best 3,000 Laying Birds, Mammoth Incubator, etc. For Particulars, Prices, etc., apply to THE EARL OF ELTHAM, STOKES COURT, STOKE ST. MARY, TAUNTON.



Patent No. 172434.

THE HOVER THAT MOTHERS THEM  
IN PERFECT

Health Comfort and Brooding  
IS ASSURED WITH  
**UNIQUE—HOVERS**

The One and Only Hovers embodying  
Special Features for Successful Chicken  
Rearing.

Catalogue Free.

**The H.C.B. Poultry Appliance Co.,**  
Willow Bank Farm,  
LITTLE MOSS, ASHTON-U-LYNE.

**GOVT. SURPLUS BINS.**  
**RAT PROOF.**



1 to 12 2/6 each.  
13 up 2/4 each.



1 to 5 4/6 each.  
6 to 18 4/3 each.  
18 up 4/- each.

**H. GORDON (D),**  
**23, Bowly Road, Gloucester.**



**WELL-BRED BIRDS**

PLUS THE

**"TOOKTOOK" Poultry Foods**

Regd.

**FORM AN IDEAL COMBINATION FOR HEAVY EGG PRODUCTION.**

per cwt.  
"TOOKTOOK" Mixed Grain - 15/6  
"TOOKTOOK" Laying Meal - 15/6  
"TOOKTOOK" Dry Mash - 16/6  
Carriage Extra.

The name "TOOKTOOK" is a guarantee of scientifically balanced mixtures of the very highest quality at economic prices.

ALSO

**PURE DRIED BUTTERMILK**

15/- per 56-lb. pkg. 5/6 per 14-lb. tin.

per cwt.  
**GLUTEN FEED** (Oil 3%, Alb 23%) 11/-

**PURE WHITE FISH MEAL** (Guaranteed 60% Alb. min.) - 18/6

**DRIED YEAST** (Scotland) - 22/6

Carriage Paid on Yeast.

Carriage Extra.

Terms—Nett Cash with Order.

Special Prices delivered, or free on rail.

English and Irish Ports on application.

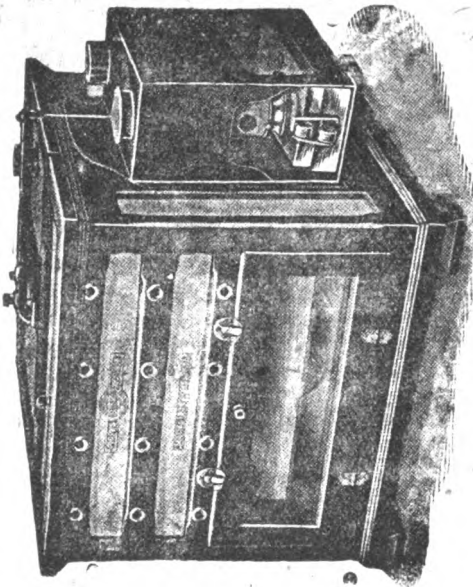
Complete Price List FREE.

**MACFARLAN, SHEARER & CO.,**  
Poultry Feeding Specialists,  
**GREENOCK.**

**MAJOR HEAPS,**

Breeder of High Class Utility Poultry  
ROSEHILL, MARKET DRAYTON.  
W. Leghorns, bred from my "Daily Express and S.P.B.A. winners. L. Sussex (Rottchild), W. Wyandottes (Barron's), Ancon (Hurt's); Fawn and White Drakes, 10/6 Pullets from 15/-; 1921 Hens from 10 proved Cocks, 15/-; Cockerels from 15/-  
EGGS: Pens, 10/- doz.; Flock, 7/- doz.; 100. Chicks, 21/- doz. January on.  
Carriage Paid and on Approval.

# For the 96th time



Phipps' "PERFECTION" Incubator is without doubt the world's best hot-water hatcher. It has secured 96 Highest Awards at all the leading shows and for upwards of twenty-five years has been the leading hot-water machine on the market. Every feature in the "PERFECTION" Incubator is one of outstanding merit and a distinct advance in artificial hatching development.

Phipps' "PERFECTION" Incubator.

30 egg size	£6 15 0
60 "	8 10 0
100 "	10 0 0
200 "	15 0 0

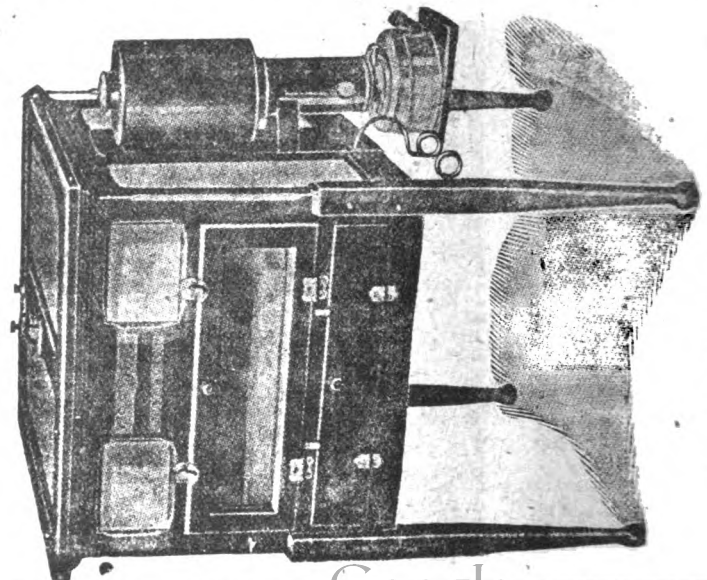
Phipps' "PERFECTION" Incubator.  
Ironstone Hot-Water Model.

The secret of the hatching success of the marvellous Phipps' "PREMIER" Incubator is built right into it—the dual heating device making it the only uniformly-heated hot-air machine on the market. The ventilator is perfect, and the regulation and ventilation are absolutely correct, so that the "PREMIER" will keep its heat almost as long as the hot-water model and the cost of operation is half that of any other machine on the market.

Phipps' "PREMIER"

Incubator.

70 egg size	£6 15 0
110 "	7 15 0
160 "	8 10 0
260 "	11 10 0
400 "	15 0 0



Phipps' "PREMIER" Incubator.  
Ironstone Hot-Air Model.

"PHIPPS" Incubators at the Grand International Show again secured the Gold Medal against all competitors in open competition, making the 96th time in succession that these famous machines have been placed ahead of all competitors. Truly a great record.

H.R.H. THE PRINCE OF WALES paid a visit of inspection to the "PHIPPS" exhibit, and was greatly impressed by the beauty of the workmanship and the correctness of the design of these world-famous Incubators. As a result he placed an order for "PHIPPS" Incubators. Follow a good lead, and see that the machines you buy are "PHIPPS" Incubators. The best is best always.

The measure of an incubator means the eagerness to own it. In that respect "PHIPPS" Incubators are fortunate in their following. Never in poultry history has any product been so greatly desired.

The one thought of A. E. W. Phipps, the inventor and designer of the "PHIPPS" Incubator, is to keep alive by translucent merit the eagerness to own one of these famous incubators which exists the world over to-day. In the light of this unique record "PHIPPS" reputation has assumed almost heroic proportions.

Where unflinching economical hatching is desired "PHIPPS" Incubators have won the confidence of thousands by giving dependable service at low cost. If you want best results hadn't you better write for a copy of "PHIPPS" Art Catalogue without delay? Remember the hatching season is close at hand.

PHIPPS' Incubators and Brooders can be bought on Easy Terms from J. G. GRAVES, Limited, Sheffield, or THE SERVICE CO., 292, High Holborn, London, W.C. If purchasing on these terms please write either firm direct.

## A. E. W. PHIPPS,

Midland Works, No. 4,

## HARBORNE, Birmingham

**FRANK SNOWDEN WINS**

In English and American International Laying Tests.  
FINAL REPORTS.

- 1st.—**GOLD MEDAL**, with White Leghorns at Harper-Adams' College Test, Salop.
- SILVER CUP**, with White Leghorns, for **HIGHEST PEN SCORE** of the whole competition for month of January, at Missouri State International Test.
- 2nd.—With 20 Special High Record Merit Ribbons—White Wyandottes, at Missouri State International Test.
- 3rd.—**BRONZE MEDAL**, with White Leghorns, at The National Championship Laying Test.
- 4th.—£25, with White Leghorns at "The Daily Mail" £1,000 two-year Test.
- 5th.—With White Leghorns at The Missouri State International Test.
- 6th.—With White Leghorns, at Harper-Adams' College Test—67 pens competing in Section.

**SUCCESSSES WITHOUT PARALLEL.  
CONSISTENCY SPLENDIDLY MAINTAINED.**

Enquire at once for Stock Cockerels in White Wyandottes and White Leghorns. Prices from 21/- to £5 5s. White Leghorn Pullets from 21/- to 42/-.

Place your order now for Eggs and Chicks for coming season.  
Post Your Request (enclosing 2d. stamps) for 1923.  
Catalogue of Matings which will be ready for issue on January 1st, 1923.

THE HOME OF CONSISTENT QUALITY IS  
**FRANK SNOWDEN,**  
**HALES HALL POULTRY FARM, COWLING,**  
**KEIGHLEY, YORKS**  
(Phone: Crosshills 85).

**ONE OF THE OUTSTANDING EXHIBITS AT THE OLYMPIA**

**The "OXYLENE"  
FIREPROOF Incubator.**

A MACHINE OF FIRST CLASS WORKMANSHIP Made from Wood which is GUARANTEED TO HAVE BEEN RENDERED COMPLETELY FIRE-RESISTING, BY THE WELL-KNOWN "OXYLENE" PROCESS (adopted by H.M. Admiralty, and leading Steamship and Railway Companies).  
INCORPORATES EVERY Latest Improvement in INCUBATOR CONSTRUCTION (Electric Light, Nursery Window, Large Oil Tank with Float Gauge, etc.), AND CAN BE OPERATED IN DWELLING HOUSE OR OUTHOUSE WITHOUT RISK OF FIRE!



PRICES—	Standard Model.	Model de Luxe (Solid Mahogany Case).
70-Egg Size	£7 0 0	£9 10s.
160-Egg Size	£8 10s.	£11 10s.

Descriptive Price List Post Free from—  
**THE TIMBER FIREPROOFING CO., LTD.,**  
**MARKET BOSWORTH, N. NUNEATON**  
(Incubator, Brooder or Intensive Houses built from Fireproof Wood, at moderate cost, to customers' specifications).

**SPECIAL XMAS OFFER.**

**S. P. F.  
Laying Meal.**

For One Week only, to Dec. 27th.

Carriage Paid England and Wales. **16/9** per cwt.

After that date, usual price of 20/- per cwt.

**EGGS FOR HATCHING**

From my Trap-nested White Leghorns, R.I.R.'s and Black Leghorns,  
**106 doz. Chicks, 21/- doz.**

**REGINALD BARWELL,**

*Swavesey Poultry Farm, Cambs.*

**'FAM' Poultry Foods**

For Quality and Price we ask your attention and comparison.

We are steadily making for the 1914 level.  
Quality Always the same, THE BEST.

	Per Cwt.		Per Cwt.
'FAM' Dry Chick Feed 1st month	21/-	'FAM' Dry Mash (Egg Producer)	16/6
'FAM' Ditto No. 2 after 1st month	17/6	'FAM' Chick Mash (Body Builder)	17/6
'FAM' 'Scratch-for-it'	14/-	'FAM' 'Clofaka' Meal	Per 100 lb. 15/-

*All Goods Carriage Paid.*

Maize Gluten.	Linseed Meal.	Dried Yeast.
Maize Germ Meal.	Biscuit Meal.	Dried Butter Milk.
Maize Flake.	Meat Meal.	or Separated Milk.
Maize Kibbled.	Blood Meal.	Dried Full Milk.
English Bean Meal.	Fish Meal.	Oyster Shell & Grit.
Soya Bean Meal.	Sussex G. Oats.	

**Philip Church & Sons, Swan**  
**BISHOPS STORTFORD.**  
'Phone: 138.



## Leckhampton Poultry Grit.

**THE IDEAL GRIT AT LAST.**

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

**Analysis—**

Calcium Carbonate	89.30	Calcium Sulphate	traces only
Silica	3.03	Moisture, organic matter, etc.	3.19
Oxides of Iron and Alumina	3.92		
Calcium Phosphate	.56		100.00

**PRICES:**

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 5s. 6d. per cwt.; £2 10s. 0d. per  $\frac{1}{2}$  ton; 24 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per  $\frac{1}{2}$  ton; 23 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.



### I am a Eugenist!

The Scion of a Noble Race  
Outclassing my Fellows  
Not by Breeding alone  
But by Thews and Sinews  
Yim and Virility.  
A Product of Steyne Foods  
The Science-sense of Feeding.

Lis: s and Booklet Post Free.

**The STEYNE FOODS Co.,**  
Steyning, Sussex.

### "Poultry Foods and Feeding"

ALSO

"Chicken Rearing,"

BY

**TOM NEWMAN**  
Rudgwick, Sussex

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

WANTED, EARLY JANUARY.

500-1,000 LIGHT SUSSEX HATCHING EGGS.

Price and Mating to:—

**COUSINS,**  
Maybury, Oakley, HANTS.

### Mrs. ALEC WILSON

NOW OFFERS

Utility White Wyandotte Cocks  
and Cockerels from her prize-  
winning Stock, with trap-nest  
records of 210 to 270 x 271-299  
2-oz. eggs and larger.

From 30/- and 42/- each.

Write for Free Illustrated Catalogue.

**GARTH WYANDOTTE FARM,**  
GARTH, BRECONSHIRE.

## Calor Clogs

YOU WANT COSY FEET

NOW.

THIS  
WARM LINED  
CLOG FOR  
6/11

Post Paid.

ALL  
SIZES  
SAME  
PRICE.



IRONS ON  
SOLES AND  
HEELS  
1/- MORE.

You know "Calor" Clogs are good,  
and save your boots in the garden, and  
at all out-of-door or cold indoor work.  
Send for Catalogue of Boots and Clogs.  
Free for a P.C. New Low Price.  
PATTERSON, D 87, Overgate, DUNDEE.

## The ELMS EGG FARM,

Hathern, LEICESTERSHIRE.

50 White Leghorns. 1921, April  
hatched, through moult, individual  
records from 180-195 eggs.  
PRICE: 7/6 Each.

25 White Leghorn Pullets, hatched  
April and May, 1922, in full lay.  
All from L2 stock.  
PRICE: 12/6 Each.

Seven R.I.R. Hens, 1920, and Cock,  
1921 (Golden's). These hens average  
for two years: 390 eggs each. In  
full lay.  
PRICE, PER PEN: £4 0s. 0d.

25 R.I.R. Pullets, March, 1922,  
hatched (Golden's), in full lay.  
PRICE: 13/- Each.

Five White Leghorn Stock Cock-  
erels, dam 264 eggs, grand dam 310  
in four years.  
PRICE: 15/6 Each.  
Foundation Blood of White Leg-  
horns, Barron-Snowden, and Cam-  
Metcalfe.

Proprietor: **CHARLES ASHTON,**  
S.P.B.A.

## DR. J. H. BALDWIN,

SPRINGFIELD P.F. WIMBORNE, DORSET.

ONLY THE VERY FINEST STOCK in

White Leghorns,

White Wyandottes,

R. I. Reds (s.c.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.



## At this Season

when you are reviewing the past year's work, and looking ahead—planning improvements and developments—we wish to remind you that White May Lamp Oil is specially designed to meet the most exacting requirements of Incubator and Brooder work.

We, too, are planning developments for 1923. We know that in White May we have an oil of the very highest grade, and we are concentrating on the improvement of our already efficient service system.

The service will be in every way worthy of the product, and we feel confident that in 1923, we will more than ever deserve your patronage.

## White May BP Lamp Oil

**British Petroleum Co. Ltd.**  
22, FENCHURCH ST, LONDON E.C.3  
Distributing Organization of the  
ANGLO-PERSIAN OIL CO. LTD.

## THESE ARE STRAINS OF QUALITY

Buff Rocks, Rhode Island Reds,  
White Wyandottes, White Leg-  
horns, Aylesbury and Runner  
Ducks.

**R. C. BEATTIE**  
Beside P.F. Totnes, S. DEVON.

TRAP-NESTED PEDIGREE STOCK.

**EGGS** MATING  
LIST  
FREE. **CHICKS**

**EGGS. CHICKS.**  
**LYNDEN LEMON,**  
M.P.C., N.U.P.S., S.P.B.A.,  
Edge Poultry Farm, Devizes.

New Booking Orders in advance for 1923.

W. LEGHORNS, LIGHT SUSSEX, W.  
WYANDOTTES.  
BLACK and WHITE LA BRESSE.

Awards at UTILITY SHOWS in 1922:  
TOTTENHAM, N.U.P.S.

YEOVIL.  
Including TROWBRIDGE,  
BRISTOL, N.U.P.S.  
NORTHUMBERLAND HEATH:  
Challenge Cup, 21 Firsts and Specials.

PULLETS FOR SALE.

**A. St. John TREGURTHA,**  
M.S.P.B.A.,  
**MARCHWOOD, HANTS.**

**Eggs for Hatching,**  
60/- per 100. 8/6 per 12.  
Carriage Paid. Infertiles Replaced.  
**Chicks, 26 10s. per 100.**  
17/6 per Dozen.  
LIVE DELIVERY GUARANTEED.

**RHODE ISLAND REDS**  
CROWLEY-MEASURES.

**WHITE WYANDOTTES**  
BARRON-CAM-METCALFE.

**WHITE LEGHORNS**  
BARRON-CAM-N. H. BELL, BALDWIN.

**LIGHT SUSSEX**  
MRS. MARRY KENT.

**ANCONAS**  
REV. JOHN WILSON—"DAILY MAIL."  
ALSO SPECIAL PEN OF

**SILVER CAMPINES**  
REV. LEWIS JONES.

**EGGS, 12/6 per doz. CHICKS,**  
30/- per doz.

Mating List, 1923, on application.

**Hodkinson, M.S.P.B.A.,**  
**HOLYWELL, HUNTINGDONSHIRE,**

Is now Booking Orders for delivery January  
to April, at 10/6 per dozen, from specially  
Selected Pens of R.I.R., White Wyandotte,  
White and Black Leghorns.  
Every hen a daughter of competition win-  
ners, and each hen is mated to Special  
Cockerels from Boucher's, Wilson Beattie's,  
Padman's, direct imported and "Daily  
Mail" Champion Pens.

Further Particulars on Application.

Eggs from Flocks same Strains,  
6/- per doz., 45/- per 100.

All Breeding Pens, 12 Birds.

**NORTHCOTE BUFF ROCKS.**

The Breed and Strain you want if your  
object is Winter.  
Eggs on a cold clay soil.  
Harper-Adams has proved their merit.  
Six Pullets averaged 207 Eggs in 43 weeks.  
Red Season for six winter months by  
60 eggs.  
All six laid over 100 Eggs each in first  
150 days' laying.

**NORTHCOTE LIGHT SUSSEX**

Have proved their merits wherever they  
have competed as  
The Strain for Large Eggs.

Official Testimony and Proof Fail.  
A Trial will convince you.

**A. A. PLIMPTON, Northcote Poultry Farm,**  
WARRINGTON, DEVON, E. YORKS.

## To make sure of 1923 proving a "Better Year."

**A** "BETTER YEAR" depends on more than mere "luck." It depends on the right man working on the right lines with the right material. Ever since I started poultry-breeding I have found each year better than the previous one, and, although I may have had my share of good luck, I maintain that I have *made* them better chiefly by my own efforts. And what has happened in my case will happen in yours *if you make up your mind that it shall*. One of the main things to do is to lay your plans well ahead. Do your "thinking out" while you have plenty of time.

I have selected my birds for my own 1923 breeding, and I have set aside a number of breeding pens for disposal. I advise you to buy your breeding birds now, while you can get the pick. Remember that the value of your 1923 broods will depend upon the stock you breed from, and that one cockerel and 10 hens can produce 500 chicks next season. Therefore, your cockerels should be the best you can afford, and the initial cost will be a small matter when spread over the season's hatch. I practice what I preach, and the results prove the value of my advice. I can offer early 1922 cockerels, all from high record hens, well developed and true to type. They are healthy, hardy birds, brought up under natural conditions on free range. My 1920-1921 hens have been selected from thousands of pullets and have all laid over 200 eggs in their pullet year. Many of them have laid up to 280. I shall be pleased to send you particulars of my breeding pens, and if you will give me a general idea of your requirements, I will tell you just what I think will suit you best. I want to help you "make 1923 a better year."

Whether you favour White Leghorns, or Black Leghorns; White Wyandottes or Rhode Island Reds; Light Sussex or Black Mendels; I can offer you exceptional value.

Whenever possible, see the birds before you buy. Come to "Heaselands," if you can; but, if not, remember that I guarantee every bird I sell to give satisfaction.

**E. Boslock Smith**  
Pedigree Utility Poultry

"Heaselands" Hayward's Heath, Sussex, England.

Write for Free Booklet "Profitable Poultry."

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

	per cent.
Moisture	8.73
Oil	.60
Albuminoids	45.94
Carbohydrates	36.32
Woody Fibre	.03
*Mineral Matter	8.38
	100.00

Nitrogen	7.36
*Including Sand	.06

### OSSIFIED YEAST.

Analysis.

	per cent.
Moisture	6.86
Oil	12.22
*Albuminoids	39.76
Carbohydrates	19.93
Fibre	0.20
Ash	21.04
	100.00

*Containing Nitrogen	6.36
" Phosphate of Lime	18.88
" Sand and Silicious matter	0.33
Total Food Units	150

### PRICES:—

Dried Yeast, 21/- per cwt.  
Ossified Yeast, 21/- per cwt.

Also our Complete Poultry Meal.

This Meal, containing both the above, is composed of the soundest and purest ingredients we can procure, and we believe it to be superior to any other Meal offered for the feeding of Poultry, and for egg production.

PRICE: 21/- per cwt.

Carriage Paid England and Wales.

Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

PURE SWEET STERILISED BLOOD.

**RENTOX (Regd.).**

7 lb. bag sent post free for 5s.

Full Particulars on request.

**MIDLAND CATTLE PRODUCTS, Ltd.**  
BORDERSLEY STREET,  
BIRMINGHAM.

**MOORSWOOD**  
POULTRY FARM,

**HERONS GHYLL, UCKFIELD, SUSSEX**

Proprietors: Mrs. James Hope & Miss A. Howard  
Manager: Mr. E. Lott.

readers of High-Class Pedigree Utility Poultry  
Rhode Island Reds (s.c.) Light Sussex  
and White Wyandottes.

RHODE ISLAND RED COCKERELS from £1 1s.  
Booking Now, Orders for Sitlings and Day-Old Chicks

## VITAXA FOR VIGOUR AND VITALITY

**A Health Giver and Money Saver.**

converting losses into profits by releasing and augmenting the VALUABLE VITAMINE CONTENT OF THE FOOD RATION.

**THIS HIGHLY CONCENTRATED**

ESSENCE overcomes the faulty assimilation of nourishment, which is the primary cause of sluggish layers, backward pullets, immature chicks and imperfect fecundity.

Neither an injurious spice nor forcing agent

Packed in patent air-tight tins at 2/6 & 3/9 also in patent tin buckets of about 14 lbs. at 10/6 each; 2 buckets for 20/-, 3 for 29/-, 4 for 38/-

Carriage paid, with full Directions.

SOLE MAKERS—

Estd. 1859.

**ALBION THORPE & SONS,**  
Poultry Food Makers, RYE, Sussex

VITAXA FOR VIGOUR AND VITALITY

**T. H. REDFORD, M.S.P.B.A.,**

at the Beeches Poultry Farm, MOBBERLEY (Cheshire).

**WHITE WYANDOTTES. WHITE LEGHORNS.**

**COCKERELS**, February Hatched, bred from L2 Hens, Sire's Dams, L2 Hens, with a yearly record of 245-255 Eggs.

the above Hens had also a year's record of 230 Eggs. Pedigrees and any particulars on application.

Price 21/- each.

LEGHORN PULLETS, also 00 Late May Hatched, at 10/6 each.

**TIMBER—What about it?**

ENORMOUS REDUCTIONS. WE PAY CARRIAGE ON ORDERS OVER £1.

Compare our Prices with others, but you cannot compare the quality.

x 4in. T.G.V. .... 7/3	1in. x 5in. Saw'n Brds. 6/6	2in. x 2in. Battens ... 7/9
x 5in. T.G.B. .... 9/3	3in. x 5in. Saw'n Brds. 8/6	3in. x 1in. Battens ... 6/-
x 5in. T.G.B. .... 10/9	1in. x 5in. Saw'n Brds. 11/3	2in. x 3in. Battens ... 11/9
x 4in. T.G.V. .... 9/-	1in. x 2in. Battens ... 2/6	2in. x 4in. Battens ... 15/3
x 5in. T.G.V. .... 8/6	2in. x 1in. Battens ... 4/-	3in. x 3in. Battens ... 17/3
x 5in. T.A.G. F'ing 13/-	2in. x 1 1/2in. Battens ... 5/9	3in. x 4in. Battens ... 25/-
x 5in. W'thboards 7/-		3in. x 6in. Battens ... 38/-

100 running feet. CUT TO LENGTHS OR MULTIPLES. Special Terms for large quantities. Other sizes quoted for. When ordering, please state name of nearest Goods Dealer. Saw'n Boards and Battens, planed all round, at slight extra charge. Sash and Mouldings, Greenhouse Timber, etc. We also supply Roofing Felt. Send enquiries. WE CAN GIVE IMMEDIATE DELIVERY FROM STOCK.

**USH & PARK** (Dept. C) Claremont Road Saw Mills, SEAFORTH.  
LIVERPOOL. Tel. 624 Waterloo.



## W. A. BAINBRIDGE,

### Keyneston Manor Poultry Farm, BLANDFORD.

White Wyandottes. Rhode Island Reds (S.c.)  
Light Sussex.

Sixtings of first-grade eggs from L2 birds mated to  
Cockereils from large egg and high record Hens.

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockereils**  
from large egg, high record L2 Hens.

**GEO. THISTLEWAITE,**  
CORN MILLER,  
**116, Wavertree Rd., Liverpool.**

Prompt Dispatch. No Watting.

Best English Wheat	12s. 6d.
Best English Oats	12s. 6d.
Best Mixed Corn	12s. 6d.
Round Plate Corn	11s. 6d.
Sound White Dair	10s. 6d.
No. 2 Fowl Corn	11s. 6d.
Kibbled Maize	12s. 6d.
White Middlings	10s. 6d.
Best Bran	8s. 6d.
Laying Meal	12s. 6d.
Fish Meal	17s. 0d.
Meat Meal	17s. 0d.
Sweet Clover Meal	10s. 0d.
Green Bone	15s. 0d.
Uveco	18s. 6d.
Lasco	21s. 0d.
Flint Grit	5s. 6d.
Alfalfa	18s. 0d.

6d. cwt. less 5 cwt. lots.

## AUSTRALORPS FARMS, LTD.

Importers and Breeders of Australian  
Prolific Laying

## AUSTRALORPS

**COCKERELS & PULLETS, from £2 2s. each**

Eggs and Day-Olds Ready from December.

**"DAILY MAIL" OFFICIAL TEST:**  
**1,564 EGGS IN 12 MONTHS.**

New Illustrated Mating List Free.

**Street Court, Kingsland,  
Herefordshire.**

## E. A. SALTER

### POULTRY FARM, KIDLINGTON, OXFORDSHIRE

Pedigree Laying Strains of  
**WHITE WYANDOTTES, WHITE LEGHORN**  
**ANCONAS.**

Day-Old Chicks.	Hatching Eggs
20/- per doz.	8/6 per doz.
80/- per 50.	32/6 per 50.
150/- per 100.	60/- per 100.

Carriage Paid. Unfertilized Replaced.

Special Quotations for Larger Quantities  
or Regular Weekly Supplies.

**Every Cockerel Mated is the  
Son of an Over-200-Egg Hen  
by Trap-Nest Record.**

Twenty acres devoted to Poultry  
Over 2,000 Stock Birds.  
Incubator Capacity for over 6,000.

## NOTE THESE PRICES!

Then compare **QUALITY** and  
**NUTRITIVE VALUE** in  
attention to the food you now use.

### POULTRY FOODS

Wheat  
Kibbled Maize (Sifted)  
Clipped Oats

### MEALS

Maize Meal (fine)  
Sussex Ground Oats  
S.F.C. Dry Mash  
Bran  
Middlings

ALSO—Maize (whole), Dair,  
ley Oat Feed, Barley Meal, B.  
cuit Meal (Poultry), Service M.  
(fine), Cockle Shell, Flint Gr.  
Mixed Grit, Pure Oyster Shell,  
K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMICAL**  
**QUALITY FOODS** today.  
Order through Secretary  
S.P.B.A. and get your discount.

The **Service Food**  
VICTORIA MILLS  
GRIMSBY

## MILK FOR CHICKS.

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).  
Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).  
Mr. F. W. Watt says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

**Also for fattening:—**

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

5 PER CENT. DISCOUNT to S.P.B.A. MEMBERS IF ORDERED THROUGH  
ASSOCIATION.

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

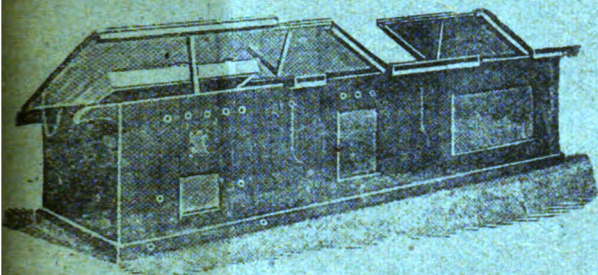
**CARR. MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
HEATHFIELD, SUSSEX.

6, BROAD STREET,  
RATCLIFFE, LONDON, E.1.



# Beyond a doubt



## Phipps' "PERFECTION" Foster Mother.

After hatching the chicks your whole success depends on the rearing. If you put them into a Phipps' "PERFECTION" Foster Mother you are sure to raise every raisable chick to early maturity and profit—the secret of the "PERFECTION" Brooder lies in the fact that it is the only brooder on the market built close to nature, with the result that its only rival is Mother Hen. This Brooder is stormproof—fireproof—fumeproof—contains brooding and exercising chambers, and raises every raisable chick under all weather conditions.

### PRICES:—

50 chick size	£6 6 0
100 "	7 7 0
150 "	8 10 0

**P**HIPPS' "PERFECTION" Foster Mother has been the acknowledged best brooder for the past twenty-five years. At Show after Show throughout these 25 years the "PERFECTION" has maintained its leadership, and has proved beyond a doubt at the Grand International Show that it is still the best.

The points a poultryraiser looks for in a good brooder he always finds in the "PERFECTION" Foster Mother.

You want the design right. The "PERFECTION" offers the correct design—following close-to-nature is the secret of its ability to raise every raisable chick to early profitable maturity.

You want the materials right. Only substantial good quality materials go into the "PERFECTION" carefully put together by skilled workers to yield faithful service.

You want the price right. The "PERFECTION" is sold at a price which proves it meets all comers successfully.

Perfection in brooding has been achieved in the "PERFECTION" through perfect control of heat and perfect ventilation—the two essentials necessary to the successful rearing of chicks. And in economy of working, simplicity in operation and perfection in rearing Phipps' "PERFECTION" Foster Mother will hold its supremacy for years to come. Hadn't you better place your order without delay?—the season is close at hand and the demand is enormous.

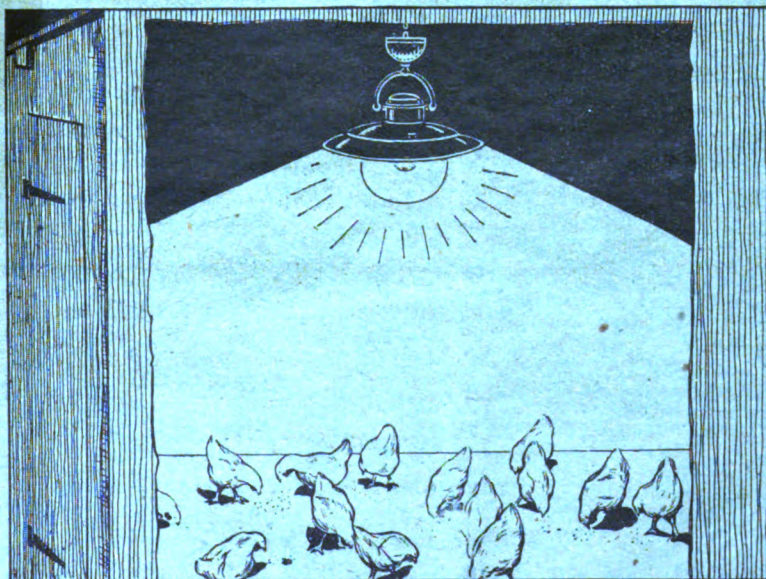
## A. E. W. PHIPPS,

Midland Works No. 4,

HARBORNE, Birmingham.

## stal "BLANCHARD" LAMPS. More Light = More Eggs.

THE IDEAL LIGHT FOR HEN HOUSES.



LIGHTS THE WHOLE FLOOR.

BRIGHTEST  
LIGHT  
MADE.

\*\*\*

PERFECTLY  
SAFE.

\*\*\*

COSTS  
E FARTHING  
PER HOUR  
TO BURN.

\*\*\*

NO  
SHADOWS.

\*\*\*

BURNS  
ORDINARY  
PARAFFIN.

\*\*\*

AUTOMATICALLY  
EXTINGUISHES  
ITSELF AT  
PRE-ARRANGED  
TIME.

\*\*\*

"SUMMER-TIME"  
ALL THROUGH  
THE  
WINTER.

for Particulars and Illustrations to the Manufacturers—

## BLANCHARD LAMPS (BRITISH)

151, FARRINGTON ROAD, LONDON, E



## Summerfield White Wyandottes

Records for the Only Peas of this truly Wonderful Strain that have Competed in Laying Trials at the Harper-Adams Agricultural College, Newport, Salop—

- 1910/1920. Pen 69. Average per bird, 196.33, of which only 21.66 were second grade.
- 1920/1921. Pen 52. Gold Medal World's Record Pen. This pen broke all previous records.
- 1921/1922. Pen 74. Bronze Medal, First Class Pen Certificate, and Seven Individual Award Certificates.
- Every bird in this pen took a Certificate (including the Reserve Bird).

Only a limited number of Eggs and Day-Old Chicks will be available for delivery in January, February, and March, 1923.

Telephone:  
Northam, 62.

Railway Station:  
Bideford,  
L. & S.W.R.

**MICHAEL F. PHELAN,**  
S.P.B.A.

Telegrams and  
Cables:

Phelan, Northam.

Code used:

Marcus Inter  
national.

Cleave Barton, Northam, N. Devon (England).

## 40% Increase

in EGG PRODUCTION by

## "KELITE" LAMP

(British Made).

Instal them in your Laying House.

"Stormlite"  
Lantern.

Burns Petrol.

38/6

Carriage Paid.



The "KELITE" System of poultry lighting for winter is the simplest and most economical. "STORMLITE" is strongly made, fitted with mica covers, and gives a steady brilliant, white light, which is not affected by wind or storm. We are manufacturing all types of incandescent oil and petrol lamps for all purposes.

Use "KELITE" TABLE LAMPS, KEROSENE LAMPS, etc., etc., for the Laying House. SEND TO-DAY FOR LITERATURE.

**KITSON ENGINEERING CO. (London), Ltd.**  
(Dept. "E"), Stamford, Lincoln.

More and Bigger Eggs from your Poultry  
can be obtained by feeding your birds on a natural and complete

# PULBIS POULTRY FOOD

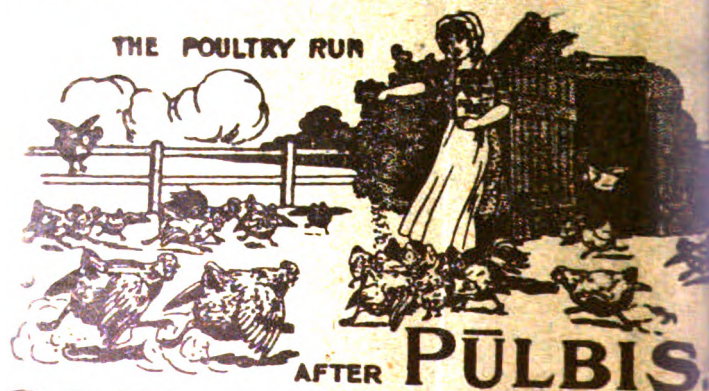
Users will immediately note the improved condition of their birds, the greatly increased number, the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.

Made by the Manufacturers of  
MELOX and MELOX MARVELS,  
the PERFECT DOG FOODS

**W. & SONS, Ltd.,**  
LONDON, E.





Wednesday, December 27th, 1922.

# EGGS

THE OFFICIAL ORGAN OF  
THE  
SCIENTIFIC POULTRY BREEDERS ASSN

(Founded in 1912 by RANDOLPH MEECH).

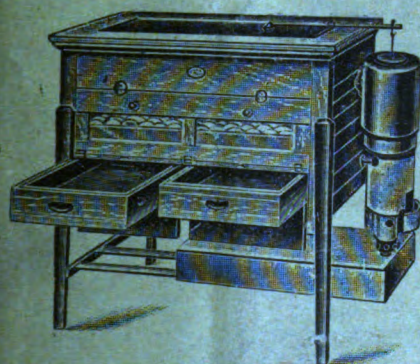
at the G.P.O. as a Newspaper.  
No. 25. Copyright.

Edited by TOM NEWMAN.  
PRICE TWOPENCE.

Twelve Months Post Free 12/8  
Six Months " " 6/4  
Three Months " " 3/3

## HEBDITCH'S RELIABLE CHICK APPLIANCES

WILL CERTAINLY PAY YOU BEST.



Used by the large Poultry Breeders, by Agriculturists, Poultry Farmers, Egg Farmers, and by many thousands of Private Poultry Keepers all over the British Isles.

### The "HEBDITCH" Incubator,

THE WELL-KNOWN HIGH PERCENTAGE HATCHER, AND THE MOST POPULAR INCUBATOR OF THE DAY. IT WILL HATCH EVERY FERTILE EGG.

IT IS SENT ON 60 DAYS' FREE TRIAL, and money back if not satisfactory.

#### PRICES:

40-egg size	£3 15 0	Crate	£8 14 6 extra
70-egg "	£6 15 0	"	£0 15 6 "
100-egg "	£7 15 0	"	£0 16 6 "
160-egg "	£8 10 0	"	£0 18 6 "
260-egg "	£11 15 0	"	£1 3 6 "
390-egg "	£15 0 0	"	£1 7 0 "

Carriage paid in England and Wales. Prompt Despatch.

Full price allowed for empty crate if returned within three days of arrival of machine.

With this Incubator is supplied a large tank-lamp, a moisture vessel, good thermometer, and an inside electric lamp, at no extra charge.

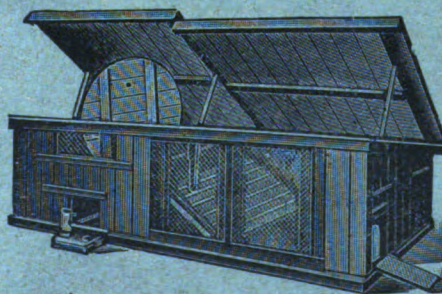
### The "LORNA DOONE" Foster-Mother.

THE QUEEN OF FOSTER-MOTHERS.

VERY EFFICIENT, RELIABLE AND WELL-MADE REARER. The Foster-Mother which has been tested and tried for many years and always found reliable. For a Foster-Mother to be in use all the YEAR, and to rear every chick given to her is a very remarkable scientific achievement. The "LORNA DOONE" will do this. There is plenty of light, no fumes, perfect ventilation and good sanitation.

No. 2 is 6ft. long, 3ft. wide. No. 1 is 4ft. long, 2ft. wide. For 100 Chicks it costs £5 12s. 6d. For 50 Chicks it costs £3 18s. 0d. Two coats good oil paint, and Roof covered with good stout Felt.

Age Paid Prices England and Wales. Prompt Despatch.



Will Rear every Chick to Strong and Healthy Maturity.

## HARRY HEBDITCH, Ltd., The Poultry Appliance Works, Desk "J," MARTOCK, SOMERSET.

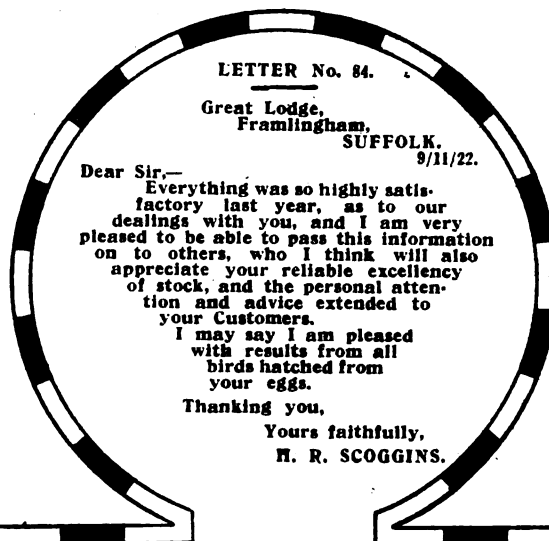
Poultry Appliance Makers to His Majesty the King and to His Royal Highness the Prince of Wales.

SEND FOR THE CATALOGUE, WHICH IS SENT POST FREE.



## SCIENTIFIC BREEDING

**T**HE average poultry keeper has an idea that the only work necessary to improve the strain is to trap-nest each bird and then to reproduce from the highest individual records. This is very misleading. When once a good strain is established individual records, though necessary, are only of secondary consideration. Our aim is to combine the three qualities of type, stamina, and the power to transmit the faculty of heavy egg production.



## SCIENTIFIC FEEDING

**W**ITH regard to feeding, in all things it is wise to profit by the experience of others. We are prepared to give every possible assistance. The result of many experiments extending over ten years we offer you the most perfect producing foods, and ideas with those used on our farm. Please write to us for full particulars.

AT THE MOMENT WE HAVE NO LIVE STOCK TO OFFER, EXCEPT  
A LIMITED NUMBER OF PEDIGREE COCKERELS AT 2 TO 4 GUINEAS



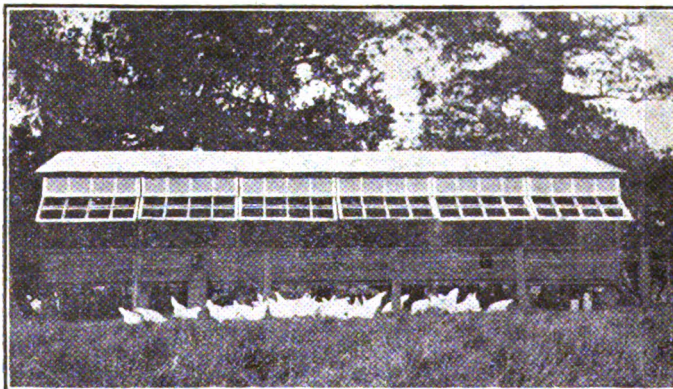
# PRIEST & SHAW

## SANDOWN, ISLE OF WIGHT



# EXTENSIBLE UNIT BUILDING

*Solve the vexed problem of maximum lighting without draft risk*  
**In INCUBATOR, BROODER, LAYING and BREEDING HOUSES**  
Extensible and convertible, in 5 ft. sections. Made to your own specifications and ideas if desired.



30ft. x 16ft. House supplied to The Misses Ransford, Perseverance Farm, Pensford, nr. Bristol.

A Demonstrating Plant has been erected adjoining works, consisting of breeding pens stocked with the Rev. Charles Birkett's Best Winning Strains, i.e., Black & White Leghorns, Wyandottes, and R.I.R.'s. There is an incubator House equipped with Two HEARSON'S capacity Incubators a Brooder House fitted with HEARSON'S Brooder Stove, 500 capacity, and Rearing House on Rev. Charles Birkett's lines. Come and see the above in full operation before you decide on your coming season's arrangements.

**V. H. COLT, M.S.P.B.A. M.N.U.P.S. Bethersden, Kent**

# Sittings & Day-Olds

**S.O. RHODE ISLAND REDS**  
(World Record Strain),  
**BUFF ORPINGTON,**  
**COALEY FAWN,**  
**KHAKI CAMPBELL, and**  
**WHITE, BLACK, FAWN,**  
**and FAWN AND WHITE**  
**INDIAN RUNNER DUCKS.**

These may now be booked for delivery next year. A few early hatched Cockerels, grand sons of Mr. E. C. B. Boucher's World Record Hen No. 37 (1,045 eggs in four years), still available. Particulars free.

## A. HAROLD PAINE,

Member, Poultry Club, Scientific Poultry Breeders' Association, National Utility Poultry Society, British Rhode Island Red Club, Indian Runner Duck Club, Utility Duck Club.

*The Chalet, Burgess Hill, Sussex.*



as used on my:—

## Hampshire Poultry Farms,

No. 1.—Dry Mash Specially Prepared for Chicks ... 28lbs. 10wt. 10wt. 8/- 9/6 18/-

No. 2.—Dry Mash Specially Prepared for Chicks at 10 weeks ... 4/9 9/- 17/-

No. 3.—Laying Mash ... 4/6 8/- 15/-  
The above can be fed as Wet Mash if desired.

No. 4.—Chick Feed ... 6/- 11/6 22/-

No. 5.—Chick Feed at 10 weeks 5/9 11/- 21/-

No. 1 and 2 Mashies Contain Extracts of Milk which render them invaluable for Growing Chicks.

**Free on Rail.**

Quotations for Larger Amounts.

Telegrams:—Four Marks.

**V. NORWOOD, Four Marks, Hants.**

# The Superiority of FUL-O-PEP Dry Mash lies in its completeness

**T**HE really remarkable success which has attended the adoption of **FUL-O-PEP DRY MASH** plan by prominent breeds and egg-farmers is due in a large measure to the provable fact that this scientifically prepared mash is one of unique completeness as regards the elements required by the hen for the prolific production of fine eggs in winter time.

The important vegetable elements are provided by the oatmeal, which forms the basis of **FUL-O-PEP DRY MASH**. The animal elements are added in the form of the finest fish meal, bone meals and meat meal. Finally, the vitally important mineral salts elements are provided in Alfalfa meal of the first-grade and other tested ingredients.

Not only are the ingredients employed unquestionably those known to provide the hen with everything necessary to sustained egg-production in winter-time, but **FUL-O-PEP DRY MASH** is scientifically prepared to a precise formula evolved by poultry food experts, and proved by continuous tests. **FUL-O-PEP DRY MASH** gives consistently good results because it is made to a never-varying high standard of purity and excellence.

## FUL-O-PEP POULTRY FEEDS

**FUL-O-PEP DRY MASH** produces eggs to the maximum in winter because it builds stamina to a wonderful extent, and keeps the birds in splendid fettle, in spite of adverse weather condition. It nourishes and builds the bird to that point where a big surplus of energy finds its natural outlet in the form of eggs of the first grade.

*If you cannot obtain  
FUL-O-PEP Poultry Feeds  
from your corn merchant,  
please get in touch with  
us direct.*



TRADE MARK.

**Poultry Foods Dept.,  
QUAKER OATS, Ltd.,  
11-12, Finsbury Square, London, E.C.2.**

**1922 PULLETS.****OFFERS WANTED**

For  
Splendid Strain of White  
Leghorns April Hatched.

1 to 40 for immediate disposal  
guaranteed not culled.

Approval willingly against cash or deposit.

*Grates to be returned.*

**MARKHAM, SONS & ALLOTT, S.P.B.A.**  
**QUENIBOROUGH, near LEICESTER.**

**"An Egg in Every Ounce."**

**CLOVER MEAL****FOR POULTRY.**

"Klovers" brand of Clover Meal is  
the best Clover Meal on the market,  
and is unequalled for egg production

"Klovers" is the only Clover Meal  
used in the Laying Test of the  
"S.P.B.A." and "Daily Express"  
Competition.

Price 18/- per cwt.  
Half-Lot 10/-

Special price for 5 cwt. lots.

Carriage Paid in England

**ROSSLYN & Co.**

30, KENNINGTON PARK ROAD  
LONDON, S.E.11.

**GRANULATED  
MOSS LITTER**

For POULTRY HOUSES.

1 2-Bushel Sack containing  
about 22lb., 3s. 6d.; 2, 5s. 9d.;  
3, 8s. 6d.; 5, 13s. 2 cwt. Bales,  
canvas covered, 15s. All car-  
riage paid. Cash with order.

**THE PEAT MOSS LITTER  
SUPPLY CO., LTD.,**

32, Thorne Wharf, Commercial  
Road, Blackfriars, S.E.1.

**WHITE LEGHORN FARM,  
WOODMANCOTT,  
MICHELDEVER, HANTS.**

A. F. C. Holdaway,  
W. T. Holdaway,  
H. Holdaway,  
C. Holdaway.

Telegrams—  
"HOLDAWAY."  
EAST STRATTON  
Hatching Eggs and  
Day-Olds in Season.

Won't you be in time for Hatching Eggs? Ah, yes, and book them now!

A thousand second and third season hens are kept, and will be mated to birds when  
dams have recorded not less than 200 eggs and upwards to 250 eggs in their pullet year.

**Price 7/6 for 12.**

**60/- per 100.**

Good Fertility and a Clean Bill of Health, and Satisfaction Guaranteed.

Bankers: Messrs. Barclay's-Bank, Ltd., Bankers.

**W. MASON, M.S.P.B.A., P.C.,**  
Littledale Poultry Farm, Halam,  
NEAR SOUTHWELL, NOTTS.  
Breeder of High-Class Utility Poultry.

All Pullets Trap-nested. Stock various ages,  
in White Leghorns, White Orpingtons,  
White Wyandottes, Light Sussex, Anconas (s.c.)  
B.I.R. (s.c.), and Barred Rocks.  
Inspection invited. Cash or Deposit. Tel.: 50Y3

**QUALITY,  
PRICE,  
DELIVERY.**

MAIN  
POINTS

SEND FOR SAMPLES AND PRICES

**JOHN W. BEVANS & Co., Tangier Rd., Putney**

**SPECIAL LIME STONE GRIT.  
NONE GENUINE WITHOUT THIS.  
TRADE MARK.**

Takes the place of Oyster Shell and Flint Grits  
(Reg.).

3s. 6d. per cwt., 65s. per ton.

F.O.R. Garston. Bags free.

All Lime Stone is not Poultry Grit.

"Original Suppliers."

**E. A. PITTAM,**

"Malbrook," Greenhill Road, Allerton, Liverpool.

Agents Wanted in all Districts

Samples Free. Six Grades.

Liberal Commission Paid.



The Henman says "It's B."

**Eggs Insured**

in the  
"Pocock"  
Patent and  
"Cushion"  
Patent  
Egg Boxes

Insurance Policy with every Box. Catalogue Free.

**DAIRY OUTFIT CO., Ltd.,**  
King's Cross, London.

**"UTILITY" TRADE MARK POULTRY FOOD**

Real Bargains until Parcels Cleared.

Special Offers to S.P.B.A.

600 bags Pure White Wheat Meal	per cwt	13
600 bags Best Sussex Ground Oats	13	13
1000 bags Fine Biscuit Meal	14	14
600 bags Best Quality Fish Meal	15	15
1000 bags Maize Gluten Meal	16	16
600 bags Maize Germ Meal	17	17
1000 bags Best Mixed Fowl Corn	18	18
600 bags Heavy Clipped Oats	19	19
500 bags Dairi Seed, Red 10/-, White	20	20
250 bags Manitoban Feed Wheat	21	21
200 bags Light Wheat, Good Value	22	22
100 bags Vegetable Charcoal	23	23
1000 bags Special Laying Meal, con-	24	24
isting of Biscuit, A.G.O.		
Wheat Meal, and Meat Meal	25	25

F.O.R. Liverpool. Bags in. Cash Terms

**ARGYLE MILLS, Argyle St., LIVERPOOL.**

'Phone: 2598 Royal. Telegrams: "Argymills"  
Established 1862.

**No. 6.  
SIZE**

# ILLUMINATED FIRELESS BROODER

(PATENTED)

Built Specially for Brooder House Work.

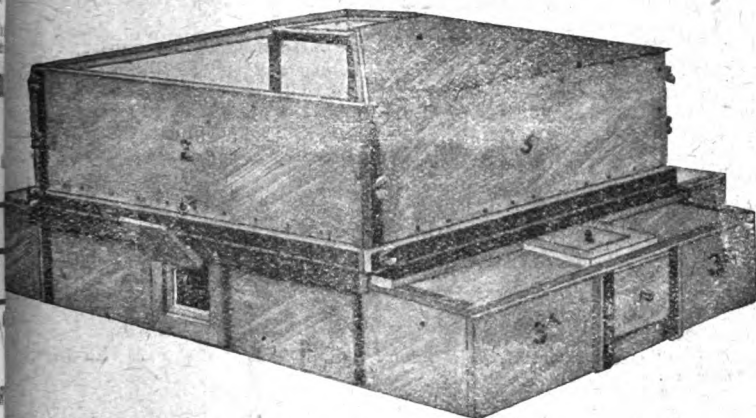
**20-320 CHICKS**

**UP TO SIX WEEKS OLD**

THIS Brooder is constructed with centre light and ventilation shaft. The source of light is not used as a heating agent for the chicks in any way.

The Brooder will hold up to 320 chicks in one flock to six weeks old. If desired, chicks of two, three, or four different ages can be reared at one time. The entire absence of huddling at all ages is a noticeable feature of the working. The complete unit can be taken down into sections in 10 minutes, without the use of a tool.

TRADE MARK.



Particulars in our NEW ILLUSTRATED CATALOGUE.  
Post Free on Request.  
Also, of smaller FIRELESS BROODERS, TRAP-NESTS  
and EGG BOXES also in the Catalogue.

**Price 12 Gns. Carriage Forward.**

## WORSSAM & ABBOTT, PYRCROFT HOUSE, CHERTSEY.

'Phone: CHERTSEY 8.

Telegrams: WORSSAM,  
PYRCROFT, CHERTSEY.

### Poultry is Profitable

THERE is nothing so determinate in poultry farming as the manner in which the flock is housed. For maximum egg production the houses must be roomy, well-ventilated, drip and draught proof, and thoroughly stable even in the highest winds. Moreover, for operating on even a small scale, in order that labour expenditure shall be the least possible, the house must be so designed as to allow sufficient headroom. These are points making for the ideal house,

but only in  
**SLADE HOUSES**

do you find them at a price which is economically sound. The Slade method of manufacture and construction and the patent principle of tying the corners allows of timber of lighter section's being used without in any way detracting from the strength and rigidity of the houses.

Another point is this. Slade Houses are sent out ready for erection, but all the minor operations capable of being done by any handy man are left to the purchaser. To those knowing anything of factory overheads the saving here will be obvious.

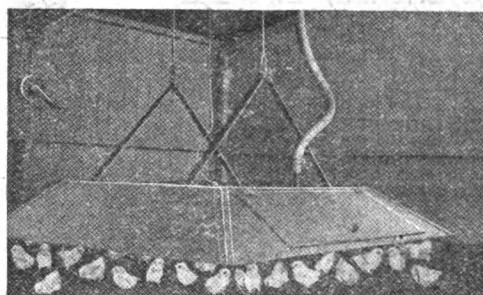
## SLADE

SYNDICATE, LIMITED,

(Directors: E. J. W. and M. W. Slade),  
28, WOBURN PLACE, W.C.1.

Send for the second edition of our Catalogue of Slade Poultry Houses and Appliances, Garden Frames and Appliances and Wire Netting.

### THE PURLEY BROODER



**NEW MODEL  
AND  
Reduced Prices**

Write at once for particulars to

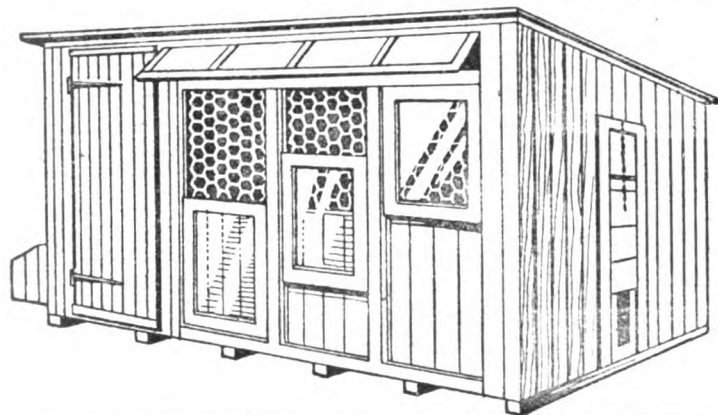
## RICHARD CRITTALL & CO., LIMITED,

43, Bloomsbury Square, London, W.C.1.



# C. A. SYDENHAM HANNAFORD M.S.P.B.A., Late Manager to Randolph Mesch

HAMWORTHY JUNCTION, DORSET, ENGLAND.



## The 'Favourite' Laying House.

The most favourite House ever introduced to the poultry world. The door can be either put in end or front, as illustrated. The prices include nest boxes, felted roof, penetrating floor, dropping board and perches, glass shutters and glass hood. Please note the glass shutters are the size as shown. Some illustrations are misleading. The sizes are guaranteed.

Size.	Long.	Wide.	High.	Price	Size	Long.	Wide.	High.	Price
1	6ft.	4ft.	5ft.	£7 5 0	5	9ft.	6ft.	6ft.	£11 7 6
2	6ft.	5ft.	5ft.	£8 15 6	6	10ft.	6ft.	6ft.	£11 7 6
3	7ft.	5ft.	5ft.	£9 15 6	7	12ft.	6ft.	6ft.	£11 11 6
4	8ft.	5ft.	5ft.	£10 13 0					All Carriage Paid.

## THE "POPULAR" BROODING HOUSE.

I shall have a 10 x 10 Brooding House also on Show, fitted up with hovers and also convertible to a Colony House. This house takes two large hovers.

The Popular Brooding House has been specially constructed to take four of my World-Renowned Pioneer Sanitary Hovers. It is 16ft. long, 10ft. wide, 7ft. high in front, 5ft. at back, made of best 3in. T. G. and V-joint matching, on 2 x 2 planed inside framing, 2 x 3 roof bearers where required. Floor is also constructed of 3in. matching on 2 x 2 joists, and four rows of 2 x 3 penetrated sleepers provided for erecting the house on.



Three 4ft. hurdles for dividing Hovers, boarded up 12in. balance, 1in. wire netting. Glass panels at bottom of front, as shown in illustration, also at back. The outer doors are hung on special heavy pivot hinges, the whole coated with my proprietary penetras, and roof felted with best 2-ply bitumen felt. Canvas shutters to drop over top ventilator inside under hood.

### THE "POPULAR" BROODING HOUSE.

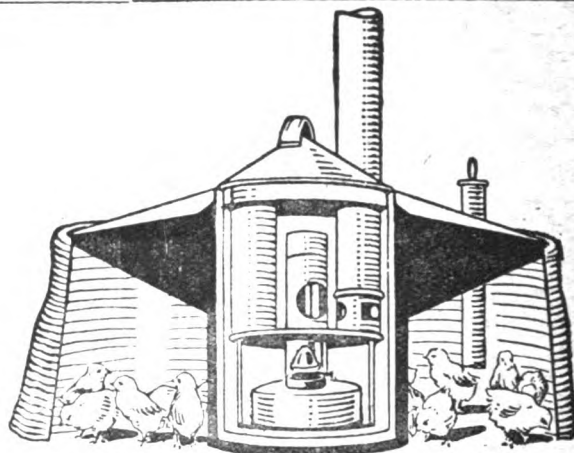
PRICE OF HOUSE, COMPLETE AS ABOVE, £34 13s. 6d.; FOUR HOVERS, £2 9s. 0d. each; 100 to 150 Chick Size. Carriage Paid.

## THE SCIENTIFIC

construction of this Hover is so simple that a child can work it, and understand it.

It will be observed from the many illustrations of so-called Cheap Hovers advertised that one appears to be as good as another.

It is only when the poor victimised purchaser finds himself landed with a little tin lamp worth about 1/3, that will neither turn up nor down, that he realised his mistake. The PIONEER HOVER is also made at my own works by very skilled men, and there is nothing left undone to make them as a standard article the best by far on the market.



INTERIOR OF HOVER SHOWING CHICKS.

This Hover at the Dairy Show and Olympia was pronounced by all Users to be

## UNBEATABLE

and Numerous Repeat Orders were booked.

100 to 150 Chick Size, £2 10s. 0d.  
3 to 6 at £2 9s. 0d. each.  
7 upwards at £2 8s. 0d. each.  
50 to 75 Chicks, £2 4s. 0d.

All Carriage Paid.

## THE SMALL UNIT HOUSE IS FITTED AS ILLUSTRATED, ALSO

It is supplied with hood over ventilating shutter, also on the left hand of door, with ventilating holes and hood.

These houses are now so constructed that there is not a more comfortable house on the market. They are penetrated outside, fitted with floor, and all edges of floor covered to avoid draughts, roof felted with best 2-ply bitumen. Glass panel in back. Bolts for fixing, wind shield for trap door. Perches are provided when required as Colony House.

£ s. d.  
No. 1—5ft. long, 3ft. wide 3 9 6  
Lined with 3-ply ... 0 16 6  
50 to 70 Size Hover 2 4 0

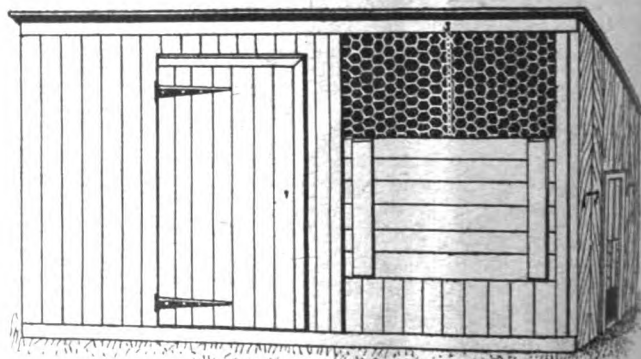
£6 10 0

£ s. d.  
No. 2—6ft. long, 4ft. wide 4 10 0  
Lined with 3-ply ... 1 2 6  
100 to 150 size Hover 2 10 0

£8 2 6

£ s. d.  
No. 3. 7ft. long, 5ft. wide 6 8 0  
An Ideal House.  
Lined with 3-ply ... 1 12 6  
100 to 150 size Hover 2 10 0

£10 10 6



All Goods, Carriage Paid, 5 per cent. extra to Channel Islands and beyond the Firth of Forth and 10 per cent. extra to Ireland.  
All goods mentioned are subject to 5 per cent. S.P.B.A. Members. Full particulars of The "SENAC" DUCK TRAP NEST, and Full List from Department A., above address.

# EGGS

*The Official Organ of the Scientific Poultry Breeders' Association.*

Wednesday, December 27th, 1922.

**Contributions.**—The Editor will always be pleased to consider contributions. Criticisms and queries are invited.

Interested Readers are asked to kindly mention the existence "Eggs" to their poultry-keeping friends.

Subscription to "EGGS," 12s. 3d. per annum; 6s. 4d. for six months 3s. 3d., three months, post free.

Subscription to S.P.B.A., 5s. per annum.

Subscriptions should be sent to Mr. TOM NEWMAN, The Athenaeum, Rudgwick, Sussex.

Editorial Matter and Correspondence to the Editor, The Athenaeum, Rudgwick, Sussex.

All communications with regard to Advertisements should be sent to the Advertisement Manager, 94, Uncombe Street, S.E.16. Tele.: 894 HOP. Classified Advertisement Rates will be found at top first page of classified advertisements.

## EDITORIAL.

### UTILITY SHOWS.

We approach this very controversial subject with no very pleasurable feelings; in fact, it is only at the request of many of our readers that we touch on it at all, for, frankly, we have no voice for utility shows, and it will be no easy task to express an opinion without being accused of prejudice or bias.

However, we will try to write as dispassionately as possible, we hope that our readers will deal leniently with us, and in any discussion that follows, will observe the ordinary courtesies of debate.

We shall do no good by citing the individual mistakes of judges, except to give point to an argument, and judges will do no good by advertising the fact that they have awarded cards to birds which have laid 300 eggs, because there is plenty of evidence that they have also awarded cards to birds which have laid less than 30, and is absurd to say you are not in the habit of opheying in one breath, and in the next pronouncing that you awarded a card to a cockerel which sired a successful pen in a laying test, because you know, or if you don't you ought to, at the external evidence of a male's breeding value as far as fecundity is concerned is absolutely unreliable, and that no handling on your part will give the slightest indication as to whether it will breed high or low fecund stock; at the best you can only say that he has plenty of vitality and no malformation.

It seems almost necessary to obtain some idea as to what is meant by the word "Utility" as applied to fowls. Broadly, we suppose it is used to distinguish those bred for purely commercial purposes from those which are bred for exhibition

points only. Or, as production is the only basis of economy, perhaps it would be wiser to substitute "economical" for commercial. In effect, we are saying that the exhibition fowl has no commercial value; or, is uneconomical, but is it so? The dividing line is very clearly defined in certain breeds. We will not deal with the purely fancy breeds, such as Brahmans, Cochins, Modern Langshans, etc., they do not come within our purview. The Orpingtons, Wyandottes, White Leghorns and Minorcas are the breeds with which we are more particularly concerned. There is a sharp distinction between the utility and the exhibition type.

But it is an entirely different matter when we come to the different varieties of Sussex, the Rhode Island Red, Croad Langshan, Buff Rocks, and others.

Let us take the Sussex, which, with the Rhode Island Red, provides the largest classes at all the great shows in these days. We maintain that every Sussex shown at Olympia was a utility bird in the strictest sense of the word, and yet there is every possibility that the winning specimens may have been beaten in a utility show by inferior birds, because all utility judges are at bottom, Hoganists, they may talk of "my" system, but we have never yet met any system of utility judging which was not 95 per cent. Hogan.

Therein lies the danger, for consciously or unconsciously the judge will subordinate everything else to Hoganism, and we maintain that the utility value of such breeds as the Sussex, Rhode Island Red and Rock should not be appraised by Hogan's system, whatever we may think of its value in connection with the Mediterranean breeds.

In our opinion, it is a mistake to cater for such breeds as those mentioned in utility shows. There is nothing inconsistent in the existing standards with the commercial value of the breed. The birds exhibited in utility classes, with a few exceptions when some fancier carries off the award, are inferior specimens to those in Exhibition classes, and give visitors to shows a lower ideal, and for that reason tend to the degeneration of the breed. The Croad Langshan standard is perfectly consistent with "utility." To "Hoganise" such a breed is the purest folly, and whoever was responsible for putting on utility classes at Olympia made a very grave mistake, which, if not nipped in the bud, is likely to prove prejudicial to the interests of the breed and the club.

It is important to remember that the VISIBLE characters of a bird are not his total assets, and that often a mediocre-looking individual may prove a great breeder, while the exceptional may, and often does, prove bitterly disappointing.

We make no fine distinctions, by **VISIBLE** characters is meant here those characters which it is claimed are disclosed by the handling test as well as those which are apparent to the eye. Particularly do we emphasise this point in regard to the judging of male birds. The son of a trap-nested dam with a good record bred from generations of pedigree layers will frequently come into competition with a good-looking bird bred from a very moderate hen. The latter may "handle" better, in many cases the judges will be influenced by "capacity and pelvic" measurements, in spite of the fact that the opinion and experience of the best breeders in the world is against them. May we put the case in another way; a breeder wishes to enter birds at a particular show, and, knowing the idiosyncrasys of the judge engaged, he studies his score card and his birds. No disrespect to the breeder is implied, most judges have their own pet ideas, and the wise breeder studies them; very well then, the pedigree of the bird he sends is no longer of importance to the breeder if the son of a 150-egg hen is a better "handler" than the son of his 250-egg, then the former goes; for breeding purposes he is worthless, but he has good "capacity," and his chances in the show pen are far superior to the one with the better pedigree, but with less capacity.

By what standard are the so-called "utility" males judged? Who fixed it? Has it ever been tested?

What is a real danger is that many of these males are being sold at high prices, far beyond their value, on their score card alone, without any pedigree, and this practise is becoming increasingly common.

But dealing with egg production alone, let us think of the standard that is being imposed upon us. To begin with capacity. We have from 4 to 20 points awarded for capacity, depending on whether it is one finger or five fingers. Now, in conversation with Mr. Tom Barron, Mr. Frank Snowden, and other experienced BREEDERS, who have won world-wide reputations in the laying tests, we find that they all agree on one point, and that is that far too much importance is attached to capacity, and they say most emphatically that many of their best layers have no more than three fingers capacity. We can confirm this from our own experience, and we have yet to find that a bird with five fingers capacity will prove a better layer or better breeder than one with four.

We do not wish to cite an isolated case in support of our arguments, but we may be permitted to again refer to the judging of the Australorps at Leicester, when awards were given to birds described as "too small," "Leghorny," "crooked breastbone." Prominent judges are continually making awards to birds with crooked breastbone, and as they are wholly unable to say whether this is due to inherent weakness in the stock or not; surely no greater mistake could be made.

But we venture to think the greatest argument against utility shows is to be found in the letters

of those who favour them. "A Believer in Utility and Beauty" remarks in our issue of the 20th November: "Few utility judges seem to think alike; one judge will give prizes to any sort of bird that looks like a layer. Again Mr. Poole in his temperate and reasoned letter says, . . . 'but the trouble is that out of many judges we have . . . some favour capacity and some capability and general fineness of texture throughout; and others will leave out capacity and capability and go for type first.'"

Coming to the question of type; we may well ask: Is there a laying type? In one notable case 20 Leghorn hens, each with a record of 250 eggs, from certified trap-nesting, were all of a different type, but of the same general appearance.

#### ANATOMICAL MEASUREMENTS VARYING IN EACH CASE.

Our contemporary, "Poultry World," publishes photographs of the winning pens of Black Orpingtons in the Hawkesbury College Laying Competition. We have here two distinct types, one the Exhibition, the "Cochiny" type, the other similar to the Australorps. The former, which included the 304-egg hen, laid 1,370 eggs, weighing 28½ ozs. to the dozen, or an average of 223.2 eggs each. The latter 1,457 egg or an average of 242 eggs each. We see then that we can get highly-fecund stock from both types. But a Utility judge would reject the "Cochiny" type, because he would attach so much importance to length of back.

We are fully conscious that the case presented is open to the charge of prejudice and bias, but we must write as we think, and many of the arguments used have been presented to us by those who favour utility shows.

The justification for these shows is the extremes to which the fancier has gone, but surely we are in danger of going to the other extreme, and to continue on the present lines with a variety of systems made to suit the pet theories of each and every judge is suicidal. It would have been far wiser to have accepted the breed standards, and to have avoided the extremes to which the fancy judges have gone. At present we have no standard, no method, and several systems, which tends to confusion and certainly destroys the educational value which these shows are supposed to possess. We shall perhaps obtain a better perspective of utility show values when we fully appreciate the fact that "handling" is really of value only as a system of culling and not of selection.

### ARGUS

was possessed of a hundred eyes, of which only two slept at a time.

As you have only two eyes, Mr. Poultry Keeper, and these have to sleep sometimes, you must make provision for what happens when your eyes are closed.

An Insurance against fire, storm, theft, foxes, etc., can be effected at Lloyds at the minimum of trouble and expense.

Write to the Advertisement Manager of "Eggs," 95, Pall Mall Street, London, S.W.1, for proposal forms, rates of insurance, etc., which he will furnish free and post free.

## 'Eggs—Speriences' in 1922

By Lieut.-Col. F. S. N. MACRORY, D.S.O.

I should be very grateful for advice on these points. If any reader can tell me of a really good dish in which to feed either milk or "Marmite" to hens and chickens, I shall feel I have not toiled in vain at this article. My ideas of perfection for such a dish are that it should **not** be made of metal—which taints milk in time—and that it should not permit the birds to use it as an extra chopping board. It should also be capable of holding a large quantity of liquid, so as not to require perpetual re-filling. My improvisations at present consist of enamelled iron photography shelves, standing on home-made tables with adjustable legs, and protected by wire grids with flat wooden tops. These are fairly satisfactory for young chickens, but one wants something of much greater capacity for grown-up birds.

Let us now pass to a brighter subject—the rearing of these "little balls of fluff—these sweetest things in nature," as one lady writer calls them in her book on poultry. (I always think the pills must do most of the fluff-rearing work!)

My rearing was done under exactly the same conditions as last year in batches of 250 to 450 day-olds under each of my four "Acme" Anthracite Stoves. I still owe Mr. Booth a debt of gratitude for introducing these stoves to my notice, though I never quite liked raking out the red-hot embers with the loaded revolver in my pocket! Mr. Booth has introduced a capsule device for automatically regulating the heat of the stove, but I never found it much good. In practice, always provided your Brooder House is large and well ventilated, I do not think it much matters to the chicks if the stove does occasionally get red hot. They simply move further away from it. This is one of the few occasions on which chickens prove that after all they have a modicum of sense. From their behaviour under most conditions it is always a puzzle to me that they do not charge "into the jaws of death, into the gates of hell" whenever the stove becomes a miniature inferno. However, when chicks occasionally do the right thing—let us be thankful for small mercies.

The rearing of the chicks was largely left this year to the tender ministrations of my two poultry men (observe the bloated millionaire touch—I used to do the work myself, then my wife did it, then man, now my **men** do it!) I must admit that the rearing was very successful. Occasional supervision was given by the lord and lady of the manor, but the "B's" still occupied most of my thoughts, and my wife had, I regret to say, started a new interest in a rival set of "B's"—Bulbs, to wit. Very fascinating things, I believe, but I do not know much about them, and none of the gardening papers have yet asked me to write them an article on the subject.

The chick feeding was the usual—bran pure and simple as a dry mash being given from fourth to tenth day, then bran gradually diluted with a mash given by Mr. Newman in "Eggs" of 22nd March, 1922 (Bran 2, Alfalfa 1, Middlings 4, Sussex Ground Oats 1, Maize Meal 1, Dried Yeast  $\frac{1}{2}$ , Fish Meal  $\frac{1}{2}$ —all by weight). I had just adopted this mash for all my adult stock, so I used it for the chicks as well. I must say it proved very successful in bringing the fluff balls on, and comparatively few of them sought an early grave. (I have given up throwing them into the river now—the business is too big. I want a much larger river, the sort the Americans use—like the Mississippi or the Orinoco.) The Fish Meal used was "cod liver oil impregnated," and to take the nasty taste out of their mouths I added the dried yeast. The latter is more popular, both with chicks and hens—they simply burrow through the mash to find it. I suppose this is because the real nature of the fowl is just as unregenerate as that of the average man, who has composed many beautiful songs in praise of "beer, beer, glorious beer." Luckily hens seldom get a chance of showing their real nature in these days of ruinous taxation on every form of nourishment which "maketh glad the heart of man."

Talking of Dried Yeast, however, I notice that Major A. G. Lee, M.C., in his most interesting article on "Vitamines," states that he found their substance to have no influence on the hatching results, whereas Yeast Extract had a most beneficial result. As the Dried Yeast was manufactured by the same firm which made the Yeast Extract, the inference, as Major Lee says, is obvious—all the Vitamine B had been extracted and was present in the Yeast Extract. He adds that he cannot say whether sources of Dried Yeast would prove effective, but on the whole he thinks that as one is buying the condensed form at a high rate per lb., rather than in the cheap bulky, and inferior form. I am certainly inclined to agree with Major Lee in these remarks. En passant, I should like to advise everyone who is interested in modern scientific methods of feeding to read Major Lee's pamphlet. It emphasises the supreme importance of feeding plenty of fresh green food—the principal source of the Vitamines—and points out that mangels and roots are not an efficient substitute. I have hitherto been in the habit of growing and feeding mangels to my hens, but I am seriously considering whether it would not be far better to grow nothing but Thousand-headed Kale and Cabbages in future. I have always found the former of these an extremely easy and certain crop to grow, whereas mangels and all root crops entail a great deal of labour in their cultivation and are much more liable to "fail."

In the feeding of the chicks, I also incorporated a compound which has been much advertised in "Eggs." It claims to supply "the fourth constituent," and very likely it does, but whether the fourth constituent makes two eggs grow where one grew before, I am not prepared to say. However, this compound may have had something to do with



the highly satisfactory rearing results I obtained with the young birds this season, so I am now giving it a proper scientific test on a pen of laying pullets against an exactly similar pen, fed and housed identically except for the fact that they lack the fourth constituent in their mash. It is too early yet to pronounce judgment, but I shall be very pleased to give my experiences in this connection later on if desired.

To continue, my chicks did well, in spite of (possibly because of) my lack of supervision, and the local Mississippi flowed uncontaminated to the sea. Then came one of my first great financial mistakes. Instead of hardening my heart and slaughtering the innocents like Herod of old, I permitted the cockerels, though separated from the fairer sex, to continue an uneventful life. Myriads of these unproductive birds flourished like green bay trees in every vacant farm building, till the time came to "thin them out." The first few batches were sold young as "petits poussins" to a local ex-soldier who knew all about this sort of work. He said he did, and I am inclined to agree with him—as a little simple arithmetic showed one that for these first hundreds of birds I had averaged the lordly sum of 4½ each! Oh, those cockerels! How I could expatiate about them, but never mind—"de mortiers nil nisi bonus."

Meantime, in spite of the separation of the sexes, the pullets were now growing into quite big girls and were becoming crowded in their select seminaries. Drastic steps had to be taken. After consulting "Eggs" I ordered 3 "Ideal" Chicken Houses from Mr. S. Taylor, Westcot, Arclid, Sandbach, Cheshire. Suffice it to say that, though nothing on this vale of tears is ideal, still these houses proved a very fair approach to it, as far as I was concerned. They embody many clever and novel ideas, and I flatter myself that I have added a few more to them. The birds did well in them from the start, and continued to grow in their new and more rural surroundings. However, through laziness on one side of the house, and excessive Bulb culture on the other, we omitted to cut the wings of these budding aeroplanes, till one summer evening I discovered that nearly all of our little birds had forsaken their "Ideal" quarters and were roosting in most inaccessible places in a large shrubbery. I invited three charming ladies who lived near to pay us an evening visit for bridge and similar amusements, the whole to culminate with coffee and light chat. They certainly got the chat, chiefly from the birds, but I feared they got little else that had been promised. With electric torches and butterfly nets we spent many pleasant hours in capturing those truant Leghorns. Needless to say, their wings were drastically clipped directly they were caught, but the evil habits remain with them, and to this day, at sight of a tree or loft building, they gird up their loins and make valiant and often successful efforts to attain to the summit of their ambitions. Some of them to this moment live almost permanently amidst lofty branches—they will probably build nests there eventually and rear families of

wild hybrids, unless I can bribe small boys to collect their eggs as they do the rooks' in the rookery. I hardly think I shall be able to arrange further evening parties of coffee and bridge and light chat for charming ladies.

Now, all the pullets have thriven amazingly up to a certain point, they have been exceptionally slow in starting egg production compared to former years. The February hatched birds did, indeed, begin to lay in August, but in a few weeks they went off again and started a pullet moult. The March and April birds did better, but were nearly a month later in laying than in former seasons. Most of the May pullets are still thinking the matter over.

In September another misfortune occurred. Serious trouble arose with my dam bank (I am not alluding to the bank in which I keep my overdrafts, but to the sides of the old mill-dam which supplies us with both water and electric light). I therefore concentrated the chief attention of my poultrymen on this, and to give them more attention, I purchased some ready-made mash from a usually reliable source. In a week or two I noticed a kind of livery look about nearly all the birds, their combs turning dark in many cases. Being pre-occupied with the dam bank, I let things slide, till in another few days "a plague amongst the people fell" and burial parties began to be the order of the day. As the egg supply from the old birds was also dwindling things were pretty serious, and it became necessary to forget the "B's" and the Bank and make a real effort to find the cause of the trouble. I discovered that through an error on the part of the suppliers this purchased mash had decidedly overdone the fish meal part of the business—about 30 per cent. of the mixture consisted of this, and rather inferior stuff at that. I hastily removed this mash and reverted to my first mixture, which, as you may remember, contains only 5 per cent. of Fish Meal. Having done this, and being by now pretty well exhausted with these numerous troubles, I left the whole show to its fate for a few days and departed on a motor tour with the Bulb enthusiast.

Returning home in mid-October we found that the egg supply from both pullets and hens had fallen off by leaps and bounds during our absence, till it was becoming perilously like our old experience of "collecting THE EGG" daily. Evidently this double change of mash from weak (in fish meal) to strong and back again from strong to weak had upset the whole applecart. As things could not very well be worse I decided to make a further change in the mash. I doubled the proportion of Fish Meal in Mr. Newman's formula (making it 10 per cent.), substituted Oat Dust for Sussex Ground Oats, and added 5 per cent. Linseed Meal. I also introduced 1 per cent. of Epsom Salts. The Linseed was added rather later, as nearly all the old birds started an extremely sudden moult. After six weeks' use of this mash, I may say I am fairly well satisfied. The Linseed Meal seems to have had a very good effect on the moulting birds, and I am inclined to think its use should

more widely advocated than it is. It is expensive, about 25s. per cwt., but it hurries the hen through the moult, it is economical in the long . . . The Oat Dust is, I think, preferable to Sussex and Oats in a mash for laying birds, and is certainly much cheaper. The cumulative result of many mistakes will, I fear, be very apparent on my bank balance by the close of the year. It is now the end of November, and, though the egg supply has steadily increased and the birds have developed much quicker since this last Dry Mash has been given to them, yet the daily percentage eggs to adult birds is less than half what it was at this period (25th November, 1922) during 7 of the former three seasons.

I summarise this list of errors and failures below, I add what at present I consider to be the causes of such failures:—

- (1) Very poor incubation results. (Due to too low a temperature in the Incubator Room and also to too much noise and talk therein.)
- (2) Heavy financial loss on cockerels. (Remedy—SACK THE LOT directly you can distinguish them, unless, of course, you wish to keep any for breeding purposes. I have, however, a vague idea of an alternative plan for next season, which is to turn all these young cockerels loose in my large shrubbery when they are about four weeks old and let them take their chance with no feeding but grain thrown to them occasionally. If they behave like the pullets did this year they ought to give quite as good sport as pheasants in the autumn. Colonel Macrory's "White Leghorn Shoots" might become most fashionable and profitable in time.)
- (3) Some pullets laying too early and then moulting. (Due to hatching too early. I shall not hatch any till March in future.)
- (4) Very slow maturing of the majority of the pullets. (Due to a certain amount of overcrowding in their youth, and possibly to a deficiency of Vitamine B in their diet.)
- (5) Some pullets hopelessly slow in developing. (Due to insufficient "culling," and also very largely to hatching too late. In future I shall not hatch after April.)

Speaking generally, much of the trouble is undoubtedly due to try to do two or more things at once. When you combine business with "B" specials and Bulbs and leave out "B" Vitamines, the result is usually bad for your Bank Balance, which is, of course, another injustice to Ireland! I am thankful, however, to add that some troubles of former years are now a thing of the past. Damp litter was one of my great bug-bears. I now trust in lime and keep my litter dry. A little powdered air-slaked lime makes all the difference, and in addition to preventing dampness I could think it must also act as a useful disinfectant.

With reference to artificial illumination, I may say that last winter I compared the egg production of similar pullets with and without this. With light, about 50 per cent. of the birds laid daily

during November and December, without it about 45 per cent. did the same. The cost of lighting a pen of 50 birds, taking electricity charges at about the usual figure, would be roughly 2s. per week (about 5 hours light per day). The value of the extra eggs would be at least 10s. per week, so that the experiment should be well worth trying in every case where it is a question of getting winter eggs for market.

The effect of artificial light on two-year-old hens does not seem to be so marked as in the case of pullets. I am at present conducting an experiment with about 250 eighteen-months-old birds, which I culled from my next year's breeders. It is rather too early yet to say how this experiment will answer, but I am moderately hopeful about it up to date.

May I add that I am not a bit dogmatic in my deductions as to the cause of my failures. I may be quite wrong in these deductions, and I shall much appreciate any criticisms which may help me for next season's work.

But whether I receive the courteous rapier-thrusts of Mr. Newman for my mistakes, or the heavy bludgeon-blows of Mr. Burn Murdoch, I trust I may at least dedicate this article (in the words of Walter Hogan) "To Those Poultrymen who, like the Author, do not know it all."

|||||

Digestible Nutrients of Poultry Feeds  
as Determined by Poultry Laboratory  
Feeding Tests.

|||||

By Dr. B. F. KAUPP

|||||

TABLE III.

Based on digestion experiments with poultry as determined by B. F. Kaup and J. E. Ivey, N.C. Experiment Station; Brown, U.S. Department of Agriculture; Bartlett, Marine Experiment Station; and Fields and Ford, Oklahoma Experiment Station; and Paraschtschuk, Laluginand and Grost.

Feed.	Total Dry Matter.	Crude Protein.	Fibre.	N.F. Ext.	Fat.	Total lbs.
Barley	90.69	8.70	0.18	58.94	1.40	69.22
Buckwheat	88.10	6.14	0.64	51.47	2.30	60.55
Clover, Red (green)	16.20	2.89		1.67	0.35	4.91
Corn	87.81	8.42	0.10	62.73	4.17	75.42
Corn, Cracked	89.71	7.44		65.54	4.36	74.34
Corn Meal (bolted)	86.87	7.47	0.12	60.05	4.87	72.51
Corn Meal (unbolted)	88.90	6.69	0.19	60.63	4.73	72.14
Corn Meal	88.70	6.93		64.30	3.41	74.64
Cotton Seed Meal	92.09	27.63	0.78	23.54	6.93	58.88
Cow Peas	88.40			48.82	1.35	50.15
Oats	80.79	9.77	1.28	45.73	2.72	59.50
Oats, hulled	91.80	9.70	0.09	55.35	7.36	72.50
Oats, rolled	92.10	12.82		62.35	5.99	61.14
Kafir Corn	88.65	7.56	0.10	63.89	2.31	73.86
Millet	90.90	7.36		63.66	2.83	73.85
Potatoes	21.20	1.03		14.71		15.74
Peanut Meal (with fat)	93.90	17.11	0.68	13.04	27.91	58.74
Peas	90.80	20.17		50.34	0.89	71.40
Rice	90.67	5.69	0.56	52.36	1.52	60.13
Rye	90.57	8.44	0.09	61.54	0.46	70.53
Wheat	89.80	8.66	0.14	61.45	1.02	72.27
Wheat Middlings	90.71	10.14	0.60	32.33	2.41	45.58
Wheat Bran	89.90	11.47		24.70	1.63	37.80
Soyabean Meal (fat ext.)	88.88	34.71	0.11	24.02	6.09	64.93
Meat Meal	92.50	54.20			10.56	64.76
Blood Meal	90.26	72.58		2.70	0.68	75.96
Buttermilk (dried)	89.88	27.86		39.20	0.77	67.83
Fish Meal	90.30	45.10			9.13	54.23
Meat and Bone Meal	94.10	36.53	0.07	3.74	10.59	50.98
Digester Tankage	92.58	47.30	0.09	3.08	12.84	65.51

# FEEDS COMPUTED ON DIGESTION TRIALS WITH LIVE STOCK ONLY.

Digestible Nutrients in 100 Pounds.

Feed.	Protein. lbs.	Hydrates. Carbo- lbs.	Ether Ext. lbs.
Gluten Meal	25.8	43.3	11.0
Corn Meal	9.0	61.3	6.2
Hominy Chops	7.5	55.2	6.8
Hemp Seed	10.0	30.4	20.5
Dark Feeding Flour	13.5	61.3	2.0
Wheat Shorts	12.2	50.0	3.8
Bread Crumbs	6.9	44.2	0.9
Eye Bran	11.5	50.3	2.0
Eye Shorts	11.9	45.1	1.6
Oat Shorts	12.5	46.9	2.8
Rice Bran	12.5	62.0	11.5
Rice Polish	9.0	56.4	6.5
Rice Meal	11.0	61.0	8.0
Buckwheat Bran	7.4	30.4	1.9
Buckwheat Shorts	21.1	33.5	5.5
Buckwheat Middlings	22.0	33.4	5.4
Milo Maize	8.7	66.2	2.2
Sorghum Seed	7.0	52.1	3.1
Broom Corn Seed	7.4	46.3	2.9
Velvet Bean Meal	18.1	50.8	5.3
Linseed Meal, New Process	28.2	40.1	2.8
Sunflower Seed	12.1	20.8	29.0
Linseed Meal, Old Process	29.3	32.7	7.0

In our tests, numbering thirteen in all, the protein of corn meal, bolted or unbolted, is digested to better advantage than that of whole corn.

Our tests show 88.18 per cent. nitrogen-free-extract digested in oats in six tests, as compared to 69 by other authors, with the exception of Bartlett, who gives 90.10 per cent. Our hulled oats experiments five. Tests show 86.22 per cent. digested by fowls. The feeds high in nitrogen-free-extract, can well be used to make up the starch or carbohydrate part of our poultry feeds. Such feeds are corn, wheat, oats, and kafir corn. Kafir corn makes an excellent substitute for wheat, and should be used more if the price will permit.

With the exception of wheat and wheat middlings, the digestion of fat or other extract is no more variable than for other feeds. Barley is only moderately low, having 64.36 per cent. of the fat digestible.

As a closing paragraph we should like to suggest that as the results of our eight year study in digestibility, mineral requirements and acid base balances, that we feel safe in recommending the following suggestions in making up the entire feeding program for poultry. As to mineral, we find that grains and mill by-products are deficient in sodium, chlorine, calcium and phosphates, and we suggest that to make good the chlorine and soda deficiencies add to each 100 pounds of mash one pound fine table salt and thoroughly mix it with the mash. To make good the phosphate the best thing is bone meal four per cent. in the mash. Air slaked lime and oyster shells aid in making good the lime or calcium shortage, but the ground bone or bone meal will furnish both the phosphates and the calcium. This will make up five per cent. of the mash.

To make good vitamine deficiencies, and to aid in making good the phosphate deficiency, at least twenty pound of animal products should be used in adult birds, and fifteen per cent. for baby chicks increasing to twenty per cent. as the chicks go on range. In addition to this, at least one-half ounce green food per adult bird, and in proportionate amounts for younger birds, should be given daily. A moderate amount of wheat middlings may be given, more especially for the water soluble B., since the aleurone layer of the wheat is rich in this vitamine. Should meat and bone meal

be given them, then twenty-four pounds may be given and the four per cent. bone meal dropped. The balance of the 100 pounds, or 75 pounds, may be made up of corn meal, which may be 40 to 50 pounds, and ground oats with a smaller amount of wheat middlings. Variety of feed must be kept in mind, for the more grains and feeds mixed together the sharper will be the appetite. The mash must be depended on to make good the grain feed deficiency.

## Scientific Poultry Breeders' Association

All correspondence should be addressed to Mr. TON  
NEWMAN, Hon. Sec., The Beeches, Rudgwick, Sussex.

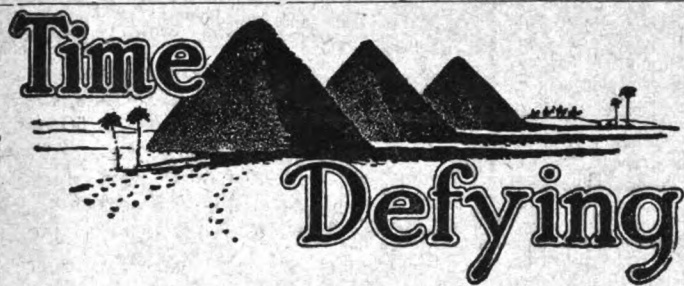
## FEEDING COSTS.

Mr. G. W. Harper writes: "I see in 'Eggs' there are often queries about the cost of feeding. I worked mine out a few days ago. I have 700 birds, and buy in lots of from 1 to 4 tons, sometimes one sort sometimes mixed. I feed on your formula, and dry mash and corn costs me 1.9d. per bird per week, all ingredients are of the best."

Now, turning from Hampshire to Scotland, we have a letter from Mr. Russell Aitken, who tells us the cost of feeding his small flock. He writes "I found that for the 52 weeks ending December 9th my birds cost me 2.15d. per bird. I have 14 hens and a cockerel, 1921 hatched, Anconas. They have been fed on your mash, but I have never been able to get Sussex ground oats, and as I have a good supply of green food from the garden, have not had to get clover meal since last spring. I have not added anything for the green food, and omitting S.G.O. and clover meal reduces the cost of your mash. All food has to be bought by the stone, as I have no room to store large quantities. I do not think the prices I am paying are specially favourable. Last week I paid per stone, Fish Meal 2s. 6d., Kibbled Maize 1s. 9d., Thirds 1s. 8d., Maize Meal 1s. 9d. I have good oats, and have very seldom any. Kibbled maize has been the main grain, as very often the only wheat available is mouldy."

## BREEDING RHODE ISLAND REDS

Mr. W. H. L. Hurman, "Grasmere" Somerset, has written a very useful paper under this title, and all those interested will read it with pleasure and instruction. Hurman has been successful in the breeding of the "Grasmere" Reds are well known, and he is competent to write on this subject, when we are all a little anxious to improve our utility breeds this useful paper is most welcome, and I am sure no one will give it sixpence for it.



**POULTRY - KEEPERS**, one and all, far and near acknowledge and respect the supremacy of

# CAM'S STRAINS

for the name is synonymous with quality in the Utility Poultry World. This reputation has been built up year by year on the firmest possible foundation, that of

## Consistent Success

in all the principal laying competitions. Far-seeing poultry keepers obtain the inestimable advantages of many years of thought and experience in their breeding stock when it is obtained from these justly famous strains.

**WHITE LEGHORNS, WHITE WYANDOTTES.**

# EDWARD CAM,

**THE GLEN POULTRY FARM,  
HOGHTON, nr. PRESTON, Lancs.**

PRICE LIST  
UPON REQUEST.  
  
Satisfaction  
Guaranteed.

THE LARGEST ONE BREED FARM ON EARTH OR AS FAR AS WE KNOW ANYWHERE ELSE

# SONIMOR

(WHITE LEGHORN)

**LOOK OUT for OUR 1923 PRICE LIST !!**

BOOK your ORDERS for HATCHING EGGS and DAY-OLD CHICKS in GOOD TIME (Saves future worry)

Phone:— 6 Chaddleworth.      Grams:— "Sonimor, Leckhamstead."

# EGG FARM

LECKHAMPTSTEAD, NEWBURY, BERKS.

OUR POPULAR PRICE LIST AND OTHER PARTICULARS COST NOTHING

## HE PROSPERS MOST

*Mr. Poultry Keeper: I pin my faith and my belief in the modern slogan of Business, "He Prospers Most who Serves Best."*

*You are sure of a genuine deal at*

# TOM BARRON'S

Catforth Poultry Farm, nr. Preston

HIS

**WHITE WYANDOTTES and WHITE LEGHORNS**

*are unbeatable as layers of large eggs, and plenty of them.*

Send 14d. stamp for Catalogue and list of Prices. Fully Illustrated, it is worth having.

## WHO SERVES BEST.

## THE "DALE-VITA"

## DUCK RECORDING HOUSE

The Result of Experience  
Tested & Proved Perfect  
Full Particulars:—

# DALE DUCK FARM,

# DIBDEN, HANTS.

**STOCK COCKERELS.**  
We are now offering some extremely choice birds, bred from high record hens, and Tested L2 Sires. Reared Free Range.  
White Wyandottes. Barron's strain, dam's record 245 24oz. eggs. Sire's dam 252 24oz. eggs, non-broody.  
R.I. Reds. Crowley-Boucher strain. Dam's record 242 24oz. eggs; sire son of Boucher's Record Hen.  
W. Leghorns. Cam's strain. Dam's record 255 24oz. eggs. Sire's dam 266 24oz. eggs. Price: One Guinea Each.  
Khaki-Campbell Drakes. Best bred from Sisters to our Bentley Pen. Price 15/- each  
A few choice Pullets in Reds and 'Dottes, from Tested L2 Hens. Just commencing laying. £1 Each.  
All Carriage Paid. Fullest Approval.  
What others say: "The two cockerels I got from you last December turned out the best I have had for several years, and maintained full vigour and fitness right through the season, and have bred about 300 fine pullets."—Hugh Sowerby, 14/8/22.  
G. R. PINDER, M.S.P.B.A., N.U.P.S.  
Lindsey Poultry Farm, CARLTON, LOUTH.



# THE PREDOMINANT FACTOR in POULTRY FOODS is QUALITY and PRICE—We ask you to JUDGE for YOURSELVES.

## Our Foods contain both Cod Liver Oil and Dried Yeast.

The Cod Liver Oil is guaranteed not to be contained in Fish Meal. It would be hard to define where Fish Oil ended and the Cod Liver Oil began.

	s. d.		s. d.
Intensive "Moregg Laying Meal" (contains Alfalfa and Cod Liver Oil) ... ..	18 6	Moregg Dry Mash (Impregnated with Cod Liver Oil) ... ..	17 1
"Moregg Laying Meal" (Impregnated with Cod Liver Oil) ... ..	17 6	Poultry Mixture ... ..	17 1
Sussex Ground Oats (Guaranteed 95 per cent. Pure Oats) ... ..	20 0	Poultry Oats (Clipped) ... ..	17 1
Alfalfa Meal ... ..	22 0	Kibbled Maize (Screened) ... ..	14 1
Green Clover Meal ... ..	18 0	Rearall 1st Chick Feed ... ..	24 1
White Fish Meal. (Tested 60 per cent. Alb., 3 per cent. Oil, 1 per cent. Salt) ... ..	21 0	Thryvon 2nd Chick Feed ... ..	22 1
Meat Meal (65 per cent. Alb. and Fat.) ... ..	23 0	Matna Chicken Mixture ... ..	19 1
Chick Rearing Meal (Special), impregnated with 1½ per cent. Cod Liver Oil (no milk required) ... ..		Yeast ... ..	19 1

Carriage Paid.

Carriage Paid.

Special Discounts on all the above if orders are received through the S.P.B.A.

WRITE TO US FOR A STUDY IN  
**VITAMINES**  
And their relation to SUCCESSFUL  
POULTRY KEEPING.

Post Free.

**E. DIXON & SONS,**  
**ST. ALBANS, HERTS.**

KEEP IN TOUCH WITH ALTERATIONS  
IN PRICES.

### GENUINE SUSSEX GROUND OATS, STONE GROUND in SUSSEX.

	per cwt.
Dried Skimmed Milk ... ..	24 0
Sussex Ground Oats ... ..	16 0
Maize Meal ... ..	12 0
Maize Gluten Feed ... ..	12 0
Maize Germ Meal ... ..	12 6
Pea Meal ... ..	16 0
Bean Meal ... ..	16 0
Meat Meal (Fine Ground) ... ..	22 6
Fish Meal (Best White) ... ..	23 6
Bisonit Meal (Fine) ... ..	22 6
Clover Meal ... ..	17 0
Broad Bran ... ..	12 0
Middlings (Best Fine White) ... ..	13 0
Middlings (English) ... ..	12 0
Feed Wheat (Best English) ... ..	14 0
Feed Oats (Best English) ... ..	15 0
Kibbled Maize (Sifted) ... ..	12 6
Flint Grit ... ..	5 0
Limestone Grit ... ..	5 6
Oyster Shell ... ..	8 0
Cockle Shell ... ..	6 6
Roller Wheat (for Chicks) ... ..	15 0
Dried Yeast ... ..	19 0
Pinhead Oatmeal ... ..	24 0
Whole Oat Groats ... ..	24 0
Broken Rice ... ..	16 0
*No. 1 Chick Feed ... ..	22 0
Mash for Laying Hens ... ..	15 0

(Both the latter are Mr. Tom Newman's Recipes.)

Carriage Forward.

5 PER CENT. DISCOUNT TO S.P.B.A.  
MEMBERS IF ORDERED THROUGH  
ASSOCIATION.

Terms:—Cash with order.

**Carr, Macdonald & Clevely, Ltd.,**  
**Britannia Mills,**  
**HEATHFIELD, SUSSEX.**

## CRAWFORD & DOWELL

M.S.P.B.A., N.U.P.S.,

### CRAWDWELL POULTRY FARM, HUNGARTON, LEICESTER.

Breeders of

HIGH CLASS WHITE LEGHORNS and  
RHODE ISLAND REDS  
(Crowley-Boucher).

Our Pen of White Leghorns won

FOURTEENTH POSITION

in the

"DAILY MAIL" £1,000 TEST.

Against 190 Pens, all Breeds, competing,  
and finished SEVENTH out of  
108 PENS of LEGHORNS.

(One Bird Died in the Tenth Month of the  
Test).

PEN AVERAGE: 214 FIRST GRADE EGGS.

Our White Leghorns have been bred for  
Thirty Years for LARGE EGGS.

HIGH PRODUCTION AND STAMINA.

We are now Booking Orders for Eggs for  
Hatching.

A Few First Class Cockerels (W.L. and  
R.I.R.) still left for disposal.

## Bred-to-Lay Strains

OF

**W. WYANDOTTES.**  
(BARRON.)

**W. LEGHORNS.**  
(PADMAN.)

Stock Cockerels and Breeding Hens

Selected Strong Vigorous Cockerels  
Autumn Delivery.

1920 and 1921 Hens.

All Trap-Nested and Passed the S.P.B.A.  
Winter Egg Test.

Pedigree, Records and Particulars, post  
Free on request.

**Major HADEN, S.P.B.A.**  
**NETHERBY HALL, SEDGLEY,**  
**STAFFS.**

September 27th, 1922.

EGGS.

# ITROPHOS Brand of

## PURE WHITE FISH MEAL

Is Unsurpassed for Uniformity of Quality and Purity.

Two Grades, No. 1 Fine, for Wet or Dry Mash, No. 2, Coarse for Distribution.

Prices—1 cwt. parcels, 22/-;  $\frac{1}{2}$ -cwt. parcels, 13/6;  $\frac{1}{4}$ -cwt. parcels, 7/6

Carriage Paid English and Welsh Stations. 1/- per bag extra Scottish Stations.

Paid to Best English Port for Channel Islands, Manx, and Irish Stations.

SOLE MANUFACTURERS:

The Good Rich Products Co., Ltd., (Dept. M.), 90, Freeman Street, Grimsby.

(MEMBERS OF THE FISH MEAL MANUFACTURERS' ASSOCIATION).

**GUARANTEE** 58% ALBUMINOIDS.  
20% PHOSPHATES of LIME  
4% OIL (Maximum).  
3.5% SALT (Maximum).

### A PROVED LAYING MASH.

We have received so many repeat orders for the mash recommended by Mr. Tom Newman that we have decided to make a special feature of the two formulae, i.e., The Standard Mash, and also that with one part Bran replaced with Alfalfa.

We use only the best quality ingredients, and in connection with this point quote extract from a customer's letter:—"The T. Newman mash you supply has given wonderful results, but in appearance is quite different to the same formula made up locally."

We can only say this: WE GUARANTEE THAT THE MASH IS MADE EXACTLY TO FORMULA, AND WE USE SUCH QUALITY MEALS AS WE (BEING PRACTICAL BIRDCULTIVATORS) BELIEVE MR. NEWMAN INTENDS SHOULD BE USED.

PRICE: 18/- PER CWT., CARRIAGE PAID. SACKS FREE.

Special Quotations for 5 cwt. lots. Terms: Cash with order, or deposit system. When ordering please state whether with or without Alfalfa and nearest station.

Special Price for Orders within 50 miles London, 17/- per cwt.

**HUSSEY BROS. (H. A. HUSSEY, S.P.B.A.),**

**5, SEVEN SISTERS' ROAD, TOTTENHAM LONDON, N.15**

### TESTIMONIAL LETTER.

London, E.3.

20th Dec.-22.

Advertisement Manager,

"Eggs," London, S.E.16.

Dear Sir,—

Please insert the following for two weeks. Many thanks to "Eggs" I have sold 750 bottles.

Yours truly,

W. C. SEARLE.

### Highly-Fecund Stock Need Extra Nourishment.

Heavy egg-layers must be well-fed, otherwise their stamina is quickly undermined; their liability to disease is increased, and their power to resist it is lessened; their growth is checked, and their period of productivity and profitability is very much decreased. Ordinary foods alone, however, are insufficient for prolific stock—something more nourishing is required, and that something is—

Concentrated  
White  
Fish Meal

# BYCOLLA

REGD

Impregnated  
with  
Pure Cod  
Liver Oil

Bycolla provides the extra nourishment so necessary for highly-fecund stock. It aids the digestion and health of the birds, and ensures a permanent increase in the egg-output without forcing or loss of stamina. Young chicks thrive, attain early maturity, and possess a robust constitution if fed with Bycolla. It also prevents the tendency to soft bone in the progeny of heavy producers. Owing to its high concentration, Bycolla is very economical—not more than 10 per cent. must be added to each mash to obtain best results.

One ounce of Bycolla per day is sufficient for six hens. This works out to a cost of 0.04 of a ld. per day (less than 1-6th of a farthing per bird).

**25/- Per Cwt.**

Terms:  
CASH WITH ORDER.

On and after January 1st, 1923, the price will be 26/- per cwt.

Also sold by Dealers in 7lb. Bags. Price, 2s. 3d.

CARRIAGE PAID  
ENGLAND and WALES.

**BICOL, Ltd., 53, VICTORIA ST., GRIMSBY**

WE GUARANTEE THE ONLY OIL ADDED  
TO "BYCOLLA" TO BE  
PURE VETERINARY COD LIVER OIL.

Telegrams: Tilleywebb,  
Basildon, Essex.  
You cannot SPECIALISE in a dozen  
different BREEDS.

We Specialise in Three only—White  
Leghorns, White Wyandottes,  
Rhode I. Reds.

By Specialising we mean Trap-  
nesting all the year round; in-  
dividual breeding and pedi-  
greeing.

To do this thoroughly with  
only Three Breeds in-  
volves a tremendous  
amount of extra  
labour.

**TILLEY & WEBB**

Please  
Send for one of our  
Illustrated Catalogues,  
Giving Pedigree and  
Records.

Prices within reach of Every-  
one's Pocket.

5 per cent. Discount Given  
on Catalogue Prices for all  
Orders Booked with Deposit  
before 1st January.

**TILLEY & WEBB, M.S.P.B.A.,**  
N.U.P.S.,  
BASILDON POULTRY FARM,  
BASILDON, ESSEX.

Stations: Wickford, G.E.Rly.  
Pitsea, M.Rly.

## NEWMAN & NORWOOD,

FOUR MARKS, HANTS,

HAVE FOR SALE

### Pedigree Cockerels

OF THE FOLLOWING BREEDS:

WHITE LEGHORN,  
WHITE LA BRESSE,  
RHODE ISLAND RED,  
CROAD LANGSHAN.

Price 30/- to 42/- each.

Walter Taylor, of Crouch Poultry Farm, Burnham  
Crouch, writes:—

"Will you please let me know whether you have  
White Leghorn and Rhode Island Red Cockerels for sale  
you have supplied me with some good White Leghorn  
Cockerels in the past, and I have had good results from  
them. My average from nearly 50 Pullets kept intensive  
for the year was 204 eggs each.

Yours faithfully,  
(Signed) WALTER TAYLOR

**Cerema**  
**MARMITE**

### Vitamin Poultry Food

THE Yeast Extract "par excellence."

SENT DIRECT TO POULTRY FARMERS

**I**N view of the widespread interest  
in the remarkable results from  
Cerema, we have decided to supply  
Poultry Farmers on the following  
terms:—

56 lbs. at 1/6 per lb.

14 lb. tins at 1/9 per lb.

7 lb. tins at 1/11 per lb.

Carriage Paid. Cash with Order.

The Marmite Food Extract Co., Ltd., 59, Eastcheap, London, E.C.3.

### Better Birds —more Eggs

**T**HIS preparation contains the impor-  
tant B. Vitamin so essential for the  
health of Birds. Birds having too  
little B Vitamin often go off their legs.  
Cerema M. helps to prevent this. Egg-  
laying is improved by addition of this  
vitamin to the food. Those who feed dry  
mash may give Cerema M. as a drink  
(1½ oz. to 1 quart water) to the Birds in  
the morning. Those who feed wet mash  
may incorporate a rather stronger solution  
in the mixture. Birds will take it eagerly.  
It increases their resistance to disease and  
assists digestion. Cerema M. can take  
the place of green food.

## TESTING THERMOMETERS.

Mr. Harry Ellison has some useful information on this subject for us. He writes: "Mr. E. Stock Smith's letter in this week's 'Eggs' on testing incubator thermometers reminds me to tell you some particulars on this subject, not previously known. We have in London a Government institution known as the National Physical Laboratory, whose business it is to test many different things from model warships for the Admiralty to thermometers for the individual. Every thermometer will be tested and the fee is most modest, as you will see from the example quoted later on. Now thermometers are of two classes, those with the graduations engraved on the stem and those otherwise. Most incubator thermometers are in the second class (more's the pity). The National Physical Laboratory will test every class and state the error (if any), but will not issue what is commonly known as a 'Kew Certificate' to thermometers engraved on the stem, for obvious reasons. It is better to send a thermometer which is more than two years old, because glass takes about that time to get really true. A good plan is to select a thermometer, either a clinical or a good ordinary one, have it tested and use it for nothing else but to standardise the bulk of one's thermometers. The standardisation is best done in the actual incubator, the tested thermometer being suspended with its bulb very near to the bulb of the other. Now in sending a thermometer to the National Physical Laboratory the particulars are commonly required: (1) The number of degrees over which the test is to be made; (2) whether the test is to be made at every degree or not; (3) the degree of accuracy required for each test. Perhaps I can give you an actual example. The graduations in the ordinary thermometer are painted on the metal to which it is attached, was tested from 95 to 105 degrees Fahrenheit at each 2 degrees Fahrenheit to an accuracy of one-tenth of one degree Fahrenheit. The charge was 6d.

REPRINTED FROM "THE PALL MALL GAZETTE," DECEMBER 12th, 1922.

## SCIENTIFIC ASSOCIATION.

Societies of all kinds for the benefit of the poultry keeper are now to be found in the kingdom, but one which does practically the most effective work amongst its members is that known as the Scientific Poultry Breeders' Association. Its work is educational in character; it takes each member by the hand and leads him on step by step over the rough places, whilst all the time instructing him in the practice and theory of poultry keeping. It was the first society to realise the value of science to the poultry breeder, and it teaches the science of breeding, feeding, housing, incubation, management, and general management of fowls.

## THE SCIENTIFIC POULTRY BREEDERS' ASSOCIATION.

## BOURNEMOUTH BRANCH.

There will be a Meeting of the Bournemouth Branch at St. Peter's Institute, Hinton Road, at 6.30 p.m. on the 3rd January, 1923, when Mr. W. A. Bainbridge will lecture on "Proper Housing of Poultry and Some Other Aspects." It is hoped that members will ask more questions than usual and join freely in any of the discussions.

Arrangements have been made with a reliable firm of corn merchants in Bournemouth for a discount off current prices of foodstuffs purchased from them by members of the Branch. Full particulars can be obtained from the Hon. Sec. at the meeting.

## Answers to Queries.

By the EDITOR.

## DUCKS.

Rev. Seymour Shaw, Warcop Vicarage, Westmoreland (President of the Utility Duck Club), will answer all queries relating to Ducks. In cases of extreme urgency answer would be direct, otherwise they will appear in these columns.

## POST-MORTEMS.

"BODIES" for post-mortem examination should be sent to Miss Knight, M.B., Lister Institute of Preventive Medicine, Chelsea Gardens, S.W.1. LETTERS AND LIVE BIRDS to 55, Clarendon Road, Lewisham, S.E.13.

Bodies should be packed and sent by post immediately after death, marked for immediate delivery. The fee is 3s. for a reply through "EGGS," and 6s. for a reply by post. The name and address of the sender should be distinctly marked on the package. Advice of dispatch and fee should be sent under separate cover.

Readers are particularly desired to observe the above rules when sending birds for post-mortem examination, and also as to writing their name and address distinctly on the package, and that of the paper in which they wish the reply to appear. Reports on baby chicks will only be sent by post. The fee will be 2s. 6d. for two, and 5s. for five.

## REPLIES BY POST.

Replies by post can only be sent to non-members of the S.P.B.A. on payment of a fee of 2s. 6d. per letter. Members of the S.P.B.A. are entitled to a reply by post by virtue of their membership.

ALL questions should be addressed to the Editor. Miss Knight does not reply to questions either by post or through these columns, except in relation to Post-Mortem Examinations.

W. P. K. (Walkenden). The mash as at present constituted contains too much bulk, it would be better if were made 14 lbs. each of Bran, Alfalfa and Pea Meal, 21 Barley, 42 Middlings, and 10 Fish Meal. The salt should be reduced to 1 lb. This could be used as either a dry or wet mash. (2) The best way would be to stir as much Middlings as you can into the bullocks blood, and then bake it in the oven, break it up and use about 15 per cent. in the mash. We are sending you particulars of the S.P.B.A.

C. E. B. (Ballycarry). If you wish to use the buttermilk it would be better to mix the chicks' mash to a crumbly consistency with it, omitting animal food. (2) Yes, buttermilk (dried) is as good as skim milk in the mash. (3) No, I would not advise the use of Marmite in this way. (4)



The birds are generally turned into the runs with the greenstuff. (5) I do not think cabbage would be superior to thousand headed kale.

P. F. (Norbury). If the birds refuse to eat the dry mash there must be some ingredient in it to which they object. I cannot say what it is, but there must be something to which they have taken a sudden dislike. I have never known healthy birds to refuse the mash if it was not from this cause. As you are not overdoing the grain feed I can suggest no other cause.

Interested (Rawmarsh). This is a very moderate sample of ground oats, and in order to supply its deficiencies it would be advisable to increase the quantity of maize meal you are using, add another half part of this.

H. W. P. (Surbiton). I have been carefully through your feeding, and I cannot find anything to account for the comparatively poor production of your birds, which you say look healthy and are smart and active. On such a mash they ought to lay well. I am, of course, assuming that the quality of the ingredients is good. For such poor production they are consuming a very large quantity of food, and it might help a little if you did not open the hoppers until 10 a.m. and started them with a small feed of grain. Further than this I am afraid I cannot help you. I am pleased to hear you find "Eggs" so interesting.

M. F. (Fife). Yes, the mash is made to my formula, and if your 8 pullets have laid 70 eggs in the first 14 days of this month on it they have done very well. Your first experience at showing was a most successful one to get two firsts and a special, and a second was a triumph for a first appearance.

Patience (Halewood). You could add a quarter part Dried Yeast to the stock mash for chicks if you wished to. There was no reason for omitting it. (2) The mash could be made up in lbs., it is merely a matter of calculation. (3) Whether a crooked breastbone in a male is a serious objection from a breeding point of view depends in a great measure on the cause of it. If it is due to in-breeding or inherent weakness of any kind, then it would be a serious mistake to breed from such a bird, but if it was acquired by unsuitable perches, or perching too early, there would be no objection to breeding from it as acquired characteristics are not transmissible.

Puzzled (Huddersfield). "I have a cockerel offered me which took second prize at a show recently, would you advise me to buy him? the price is rather a long one, but I have some pens with good records and I would not mind the price if I was sure it would be a good mating. The owner does not trap-nest, but his flock average for 86 birds last year was 174. (2) I have some early May pullets, which are just coming into lay,

could I breed from them next season if I mated them to a 1921 cockerel? He is a good bird and his sire was from a hen which laid 247 large eggs. (3) Is there any means by which we can tell approximately which chicks are likely to develop into the best layers? I should like to make some this year as a matter of interest."

I cannot advise you to buy the cockerel, as you do not know the dam's record, and there is no external evidence which will enable us to select cockerels which are likely to breed highly-fecund pullets. The flock average was not exceptional, and he is just as likely to have been bred from a dud as from a high producing hen. There are plenty of poor producers from which it is possible to breed cockerels which will win at utility shows. (2) The age of the male bird will not compensate for the immaturity of the pullets, you should not breed from these pullets on any account. What the male's sire was bred from is not to the point, you are concerned with what his dam laid, not his sire's dam. (3) You will find that the chicken pullets which are likely to prove your best layers will be those which will feather most quickly on the back; as a rule your best layers are the first to lay.

Selection (Newport). As you have not been able to trap-nest the present will be a very good time to select the pullets for your future breeding stock. As they are all hatched in mid-April this should assist you. Select those birds of medium size, reject undersized or coarse birds. The head points are of the greatest importance, the head should be short and rather narrow, with a bright and prominent eye; a dull eye indicates lack of vitality, and however well a bird should handle in other respects she should be rejected if she has a dull or sunken eye; the comb should be medium in size, of fine texture, and this applies also to the wattles and lobes; the back should be long and broad across the flights. The breast well-developed and plump. The breastbone neither short nor long, but proportionate to the length of the back. The pelvis straight and not thick, the skin soft and not coarse. The legs short and wide apart, with flat bone, not round. The distance between the pelvis and breastbone should not be less than three fingers. The plumage should be "tight"—that is, the feathers should be short. Pigmentation at this age should be a good guide to you. In the yellow-skinned breeds the pigmentation changes in the following order: Vent, eye ring, ear lobes, beak, shanks, last of all the feet, by observing this closely you will have a fairly reliable indication as to how your birds have laid. The greater the loss of pigmentation the better layer, within limits. Last of all, do not attach too much importance to any one of these indications, they all count in selecting the layer.

Novice (Tunstall). I am afraid there must be some other cause than the feeding to explain why your Leghorns are not laying better. I suspect the quality of the foodstuffs you are using is not

od, particularly after what you say about the meal, which should be neither "dark brown," mp, nor "smelly." Your ground oats should t be husky, and I think we could get a clearer a of what is wrong if you were to send me mples of the foods you are using. If you are le to supply cabbage each day at noon I would ut the clover from the mash and replace it with other part thirds. You would do a great deal tter if you gave the last feed later in the day, o'clock is too early.

Enquirer (Beaumaris). The quality of the mash allright, but I think you were wrong to reduce e maize meal. Never mind if the weather is ld or not, hens must have fats to form yolks, id the drop in the size of the egg was an dication that they are insufficient. (2) I have ways found the White Brese a very hardy breed , matter under what conditions they are kept.

**NATIONAL POULTRY INSTITUTE  
AND RESEARCH STATIONS.**

**TWENTY-NINTH LIST.**

Carried Forward .. £1,147 7s. 9d.			
P. R. Dunham (Discount) ... ..	2	2	
J. H. M. Skinner ... ..	10	6	
D. Whitehead ... ..	5	0	
J. B. Warburton ... ..	5	0	
A. H. Proctor ... ..	2	6	
C. Rasmussen (Discount) ... ..	3	1	
J. B. Bantoft ... ..	5	0	
M. McLaren ... ..	17	6	
Miss G. A. Bell ... ..	5	0	
Miss K. Johnston ... ..	1	0	
A. Pickles (Discount) ... ..	1	6	
H. W. Windle (Discount) ... ..	2	6	
Edward Brown ... ..	105	0	
C. A. S. Hannaford ... ..	200	0	
Kenneth Brown ... ..	30	0	
Miss Barbara Raye ... ..	42	0	
Lionel Green ... ..	21	0	
Edward F. Kitchingman ... ..	10	9	
Wm. Brown and Sons ... ..	2	6	
Rev. Wimberley ... ..	4	10	
T. W. Powell ... ..	3	4	
Total £1,171 7 2			

**ow for the Final Push to Complete the Fund.**  
**An opportunity to everyone on New Year's Day.**  
S.P.B.A. Contribution, £1,171 7s. 2d.

Since the inauguration of this Fund on May 12th st nearly eight months has elapsed, during which 4,800 has been raised. For this amount we are debted to the splendid support received from any Poultry Keepers, Societies, as well as to ewspapers which have given such wide publicity o the Scheme, some of which with a few traders nd business firms have subscribed generously. t least £1,800 more has to be secured to realise Scheme which will make for greater success of

Poultry Breeding and Poultry Husbandry, and is a necessity to its extension and stabilisation on a permanent basis.

The time has now arrived when the scheme must be completed or abandoned, when the £50,000 offered to the Poultry Industry by the Government will be secured or lost, probably for ever. Therefore, the balance of the money required must be forthcoming. To share in this final effort is the responsibility, as it should be the endeavour of all, whether their means be large or small.

It is suggested that at the New Year in which we are about to enter, when we are looking forward and a construction policy is imperative, each reader should make a New Year's Gift to the National Poultry Institute Fund in accordance with interests and means, giving as much not as little as possible.

Those who have not contributed to do so without delay.

Those who have already contributed may regard the new period of time as a further call to greater opportunity.

The £1,800 can be raised if—			
50 contributors will give £10 each .....	£500		
50 " " £5 each .....	250		
50 " " £4 each .....	200		
100 " " £3 each .....	300		
100 " " £2 each .....	200		
200 " " £1 each .....	200		
200 " " 10s. each .....	100		
200 " " 5s. each .....	50		
			£1,800

The National Poultry Council to which the offer of the Government has been made, and which is responsible for the raising of the money, hold its next meeting at Brighton on January 5th. Then the position will have to be considered and some decision be arrived at. By then the Council should know whether the Scheme is to be realised or not. Not the honour of the National Poultry Council is involved, but that and the future of the Poultry Industry in every one of its branches are at stake.

We appeal that on New Year's Day, 1923, each reader of "Eggs" shall cut out and fill up the following form, and forward with the amount he or she feels able to contribute not later than Tuesday, January 2nd, so that the result may be reported at the meeting of the National Poultry Council.

**NATIONAL POULTRY INSTITUTE FUND.**

To the Hon. Sec., Scientific Poultry Breeders' Association, The Beeches, Rudgwick, Sussex.

Enclosed is forwarded the sum of £ : : , New Year's Contribution to Fund for National Poultry Institute and Research Stations.

Signature .....  
Address .....  
Date, January , 1923.

Note.—Please state if this is the first or a further contribution. ....

## Some Fruit Growing Notes to Help Poultry Keepers.

By F. W. WHEELER, F.R.H.S.

(1st Article.)

Several most interesting articles have appeared from time to time in the pages of "Eggs" on this subject, and as the many advantages of combining the two are now more fully realised, and poultry keepers are keeping it up, I do not propose to repeat the arguments in its favour, but in some short articles to go more fully into details than it is possible to do in a single one.

I trust these notes will be helpful to those who intend to give this combination a trial, and must ask my readers to remember I am trying to treat the subject of fruit growing as an aid, or profitable side line, to the poultry keeper and not as his main business.

Perhaps from my experience I can also drop a "tip" here and there which may be useful to those who have already planted some trees in their poultry runs.

Doubtless some are anxious to start this winter on a small scale, therefore the most pressing need for the moment is to settle quickly what varieties to buy and to order and plant trees as soon as possible.

Let me here say that if your schemes are not worked out, or ground not ready to receive trees, or other reasons that may prevent your planting before February or March, then it is much better to order your trees and have them delivered to you as quickly as you can.

If dug up and sent to you while the sap is dormant and you carefully "heel in" (instead of getting them from the nurseries when the sap is starting to flow), you will give your trees a better chance to start off well. Big fruit growers make a point of this early lifting of trees.

This brings us back to "What varieties to buy."

Look around and enquire what does best in your neighbourhood. Soil not only varies in districts but even in a large field one part may be heavy and another light, as on our farm, but future treatment can often adjust matters.

Do not be tempted to try too many varieties or you will find that you cannot get sufficient alike for marketing. From four to eight varieties according to the size of your farm.

If you can sell in a local market study their requirements, or if near a seaside town select from the early varieties to supply the holiday makers' demands.

For culinary apples choose from such as Early Victoria (July-Aug.), Grenadier (Aug.-Sept.), Stirling Castle (Sept.-Oct.), Lord Derby (Nov.-Dec.), and for desserts from Gladstone (July-Aug.), Beauty of Bath (Aug.), Devonshire Quarrenden (Aug.), Lady Sudeley (Aug.-Sept.), James Grieve (Sept.-Oct.), Worcester Pearmain (Sept.-Oct.), Allington (Oct.-Dec.).

For those not specially wanting to supply a holiday resort market I think nothing is better than Newton Wonder and Bramley's Seedling, the former a good late cooker (Dec.-May), and by February it is a fine dessert apple; the latter an ideal culinary apple (Nov.-Jan.), and it succeeds well on damp and heavy soils and also on dry ones.

These are vigorous and of a spreading nature, and for the Poultry Keeper's runs ideal.

I know Cox's Orange Pippin is the finest flavoured apple, but have found it a shy bearer and prefer Allington Pippin taking one thing with another.

Space will not allow me to deal with Pear and Plum, and I think Apples preferable. Let me again repeat, do not try too many varieties. As you feel your way and increase your poultry runs you can add as demands show themselves.

Next article will deal with what varieties to have near one another to help polination, also best type of tree to plant.

## Correspondence.

### DRIED YEAST AND A NOTE ON WINTER EGG PRODUCTION.

To the Editor of "Eggs."

Dear Mr. Newman,—There were two omissions from my article on Dried Yeast in your issue of the 13th inst, which I hasten to supply. (1) the brewing of Stout yields a darker yeast than that from beer. When dried and ground it has a golden brown colour. There is not a great deal of this on the market. (2) In the table showing the composition of the ash of yeast, by a printer's error the figures for Lime and Magnesia were given as .0 in each case. They should have been 1.6 and 6.0 respectively.

In Mr. G. W. Thompson's letter in "Eggs" of the 6th inst. he asks me to give my views on the effect of the long winter nights on egg production and to what extent they are compensated for by less exercise.

I think my letter in the same issue answers some of his points. Just because the crop will be found empty during the latter hours of a winter night, it does not follow that the bird is starving. That great storehouse of potential energy, the liver, sees to this, because given a sufficiency of digestible carbohydrate in the food supply all the glucose into which it is converted in the small-intestine is absorbed into the circulation, and any in excess of immediate requirements is converted by the liver into glycogen (liver-starch), in which state it remains until wanted, when it is reconverted to glucose, passes into the circulation and is once more available to the tissues as a source of heat.

and energy. Thus it is some little time after the small intestine is empty before a hen begins to starve, and to draw on her reserves of fat. The great thing in midwinter is to so diminish the bulk of the mash that the laying fowl may be able to take in sufficient carbohydrate during the short day to allow of this storage of glycogen.

In summer-time much of the extra food consumed is worked off in exercise. One must not forget the importance of the latter in winter in order to maintain an active circulation of the blood in the body generally and the ovary in particular.

To this end plenty of litter must be given, as the birds are unlikely to do much in the way of exercise in their runs.

When severe frost comes the lighter breeds are usually the first to slow down—the heavy bird has more and looser feathers, less comb and wattles. These latter are constantly getting wet in the act of drinking, and, in frosty weather, are greatly affected by cold. In such conditions it is an advantage to rub them with vaseline or grease to keep them from getting wet. This is best accomplished at night time with the aid of an assistant.

F. W. HARDY.

### DRIED YEAST.

To the Editor of "Eggs."

Dear Sir,—I notice in your issue of "Eggs" of December 13th an article on the subject of Dried Yeast, by Ltd.-Col. F. W. Hardy.

As your readers will remember, dried yeast was tried fairly extensively during the war when other foods were scarce and difficult to obtain.

In 1920, when I commenced my experiments on Vitamines in connection with poultry, I immediately thought of dried yeast as a source of supply of Vitamine B, and proceeded to try it. I found no result, except that the fowls did not particularly like it. In the case of layer's cramp, of which I had a few cases at the time, it produced no effect, indicating an entire absence of Vitamine B. I subsequently ascertained that the particular brand of dried yeast I employed was made by the same firm which produces "Marmite," and the inference was obvious that the Vitamine B was extracted and was present in the "Marmite." This I found to be the case on trial, the results produced by "Marmite," in the case of layer's cramp, being almost but not quite instantaneous. In six hours after treatment a bird was completely restored to full vigour.

My own experiments at that time dealt with the influence of Vitamines on hatching, where I found that when fed to the breeding stock very much improved hatching results were obtained. Since then I have extended the treatment to the rearing of young stock, with very beneficial results. Most poultry keepers have, I think,

heard of the extraordinary successful results obtained by Dr. Plimmer in rearing chickens in confinement by means of special proteins and the use of Marmite and Cod Liver Oil. When I saw Dr. Plimmer recently he was hopeful of obtaining the same results by the use of the ordinary proteins one employs on a poultry farm, plus "Marmite" and Cod Liver Oil. If he can repeat, with the cheaper proteins, the results he obtained before, viz., getting cockerels to 4 lbs. weight at 14 weeks old and pullets to be fully matured and laying 2-oz. eggs at 16 weeks, he will deserve the thanks of the poultry industry.

To return to the subject of Dried Yeast, the "Marmite" Co., I believe, sell also an unextracted variety, which presumably contains a certain quantity of Vitamine B. I was unlucky enough to get hold of a sample of the extracted yeast. After my experience with it I thought it well to enquire of poultry keepers who had used dried yeast during the war, and there must have been some of the unextracted variety sold during the period, if they had noticed any beneficial effects of its use. In no case did I get a favourable reply, they all regarded it as a suitable food after the fowls got used to it, but none of them were enthusiastic about it.

As a source of protein it has its uses, but I am doubtful personally about the value of a protein which the fowls dislike. My own experience has shown that the animal proteins, such as a good quality meat or fish meal, is far more effective for making a hen lay. A hen seems to be able to convert an animal protein into eggs far more easily than she can a vegetable protein.

Finally, there is one more point, that of cost. Some people run away with the idea that "Marmite" because it is sold in a condensed form, looking like beef tea, is expensive, but it is not so, a little goes a long way. It is not perhaps realised that the quantity of "Marmite" required to bring a pullet to maturity costs only one penny for the whole of six months' treatment. As one prominent poultry keeper remarked to me at the show the other day, if you only save 5 per cent. more chickens by its use you have repaid its cost hundreds of times.

It is very extraordinary, and at the same time very interesting, that an article which was designed as a vegetable beef tea, should be found to be so rich in Vitamine B. It is extremely potent in this Vitamine, and if we knew the quantity of yeast which went to the making of one pound of "Marmite" we might not perhaps be surprised at its potency. When trying Vitamines we may just as well try them in a condensed form which has been proved to contain them in large quantities as to pay a certain price per cwt. for a bulky, uncertain and inferior product, the price of which has no relation to the quantity of vitamines therein.

Yours faithfully,

A. G. LEE (Major).



## UTILITY SHOWS AND MR. THOMPSON'S LETTER.

To the Editor of "Eggs."

Sir,—I was unable to reply to Mr. Thompson's letter last week, but will do so now. Mr. Thompson has not answered my question concerning poultry keepers who advertise their utility show successes; he has either overlooked or avoided it.

In my letter re Utility Shows, I pointed out some of their shortcomings as well as their advantages. I always make a point of looking at a question from both sides. Many people who object to utility shows do so from what they consider to be perfectly sound reasons; these people should have their opinions respected by those who do not see alike with them. On the other hand, I have found quite a number of people who have no use for utility shows, these people have shown utility poultry and been unsuccessful. I hope Mr. Thompson will not think I am hinting he belongs to the latter category, as I know absolutely nothing about him, having never heard of him until I read the extract of his letter to the Editor.

It is obvious to every one that utility shows are most popular and have come to stay, and it is up to all who have the real interest of the shows at heart to do their best to make these shows of real value. One of the greatest arguments in favour of utility shows is that many of our leading breeders and laying competition winners are supporting them, both and judges and exhibitors. Mistakes are bound to happen, a bad layer may win now and then, as a bad bird handles as well as a good one sometimes, but these birds are fowls. I know a utility judge who makes a point of trying to get the records of his winners, in nearly every case this judge's winners have put up fine records. As I stated in my previous letter the whole matter rests with the judging, given a judge who knows his work a utility show is a good thing; the harm is done when the judge does not know his work properly. I will end by asking Mr. Thompson to answer my question, then I shall know if he thinks that I and many others are "impudent charlatans."

### A BELIEVER IN BEAUTY AND UTILITY.

May we suggest that no further reference is made to the words "impudent charlatans." We are quite sure that Mr. Thompson did not mean to be offensive when he used them. The discussion if conducted with respect to the opinions of others may be of great value.—(Editor.)

#### APPLICANTS FOR MEMBERSHIP.

May, Cyril E., Coombs Thornboro', Buckingham.  
Rivers, Francis James, 12, Appold St., Finsbury, London, E.C.  
Twinn, Miss Ruth E., Cripplegate, West Horsley, Surrey.  
Christie, Miss E. F., The Rectory, Thornton le Moor, Moortown, Lincoln.  
Leatham, Capt. C. M., The Priory, Corsham, Wilts.  
Jackson, C. K., "Hollymoor," 5, Waterloo Road, Waterloo, Huddersfield.  
Kelley, W. H., Cranmore, Headcorn, Kent.

Stirk, Eric O., Messon House, Albrighton, Wolverhampton.  
Showell, Walter E., Walmley House, Walmley, Eardington.  
Fraser, Miss M., Agric. College Office, 41½, Union St., Aberdeen.  
Lambert, L. F., Hewell Estate Office, Nr. Redditch.  
Henry, H. A., Keadeen, Newbridge, Co. Kildare.  
Owden, L., Lennoxvale, Barnham, Sussex.  
Hitchen, H. B., Bradwell Road, Sandbach, Cheshire.  
Farndon, Owen E., Exchange Arcade, Market Street, Wellington.

Strachan, C., 15, Grange Road, Gravesend, Kent.  
Thomas, Robert, 9, Grey Road, Walton, Liverpool.  
Brainwell, Richard, Knowsley Farm, Thornton-le-Fylde, Lancs.  
Wood, W. H., Trunnah Farm, Thornton-le-Fylde, Lancs.  
Bantoft, J. B., Rose Ferns, Westfield, Woking.  
Rickhuss, H. E., Parkside Poultry Farm, Munselow, Nr. Craven Arms, Salop.

Mills, Geoff, Brampton, Huntingdon.  
Dawe, S., Housefield Farm, Hookney, Essex.  
Turner, Miss F., Clontarf, Leslie Road, Rayleigh, Essex.  
Busuttill, A. J., St. Roch, Nice (A. M.), France.  
Stearn, R. C., 10, Swanage Road, Wandsworth, S.W.18.  
Baker, J. H., 51, Hungerford Road, Crewe.  
Fawkes, F. R., The "Highlands," Runhall, Huntingdon.

Raistrick, H., Manor Vale, Halifax Road, Shelf, Halifax.  
Wade, T., Cragg House, Silsden, Yorks.  
Nugent, Maj.-Gen. Sir O. S., K.C.B., D.S.O., Farrer Canal, Mount Nugent, Ireland.

Hayden, J. L., Wetheral Shields, Wetheral, Nr. Carlisle.  
Heron, Mrs. J., Ardigon House, Killyleigh, Co. Down.  
Lancaster, Mrs. Hugh, Ashted Farm, Goldelming, Somers.  
Mrs. Myott, Oxhay, Biddulph, Staffs.  
Dunn, A., Utility P.F., Walshaw, Nr. Bury, Lancs.  
Radcliffe, Mrs., The Rise, Headington Hill, Oxford.  
Hackett, Miss E., Upper Lymington, Four Marks, Nr. Alton, Hants.

Archibald, Cuthbert N., Iona, Kings Road, New Milton, Hants.  
Cadell, Miss M., The Dean Gardens, Longniddry.  
Munro, Alec J., Pentland Mains, Loanhead, Midlothian.  
Schofield, Hy., 10, School Street, Hemmingfield, Nr. Bury, Yorks.

Lang, Capt. E. P. H., Silacre, Winscombe, Somers.  
Fernandes, Miss E. M. L., Haddon Lodge, Stalbridge, Dorset.  
Strong, Mrs. M., Moate House, Kells, Meath.  
Brown, John E., Slimeford, Gunnislake, Cornwall.  
Lee, Com. V. Hanning, Woolmer Hill, Shottermill, Surrey.  
Griffin, F. W., c/o Cheeseman and Newington, Wadhurst, Sussex.

Ellison, Chas. H., Spalding Marsh, Spalding, Lincs.  
Nugent, Lt.-Col. G. H., Florisa, Stonehill, Nr. Bordon, Hants.  
Strong, L., "Derryhill," Coalishead, Co. Tyrone, Ireland.  
Roscoe, C. S., Highlands, Chalfont St. Peter, Bucks.  
Cox, F. V., B.Sc., "Grovelands," Park Lane, Thatcham, Berks.  
Barnes, J. W., 5, Greenough Place, Tong Street, Dudley Hill, Bradford.

Anderson, A., The Den, Ltham, Nr. Auldar Road, Forfar.  
Foulkes, A. W., Bow Brickhill, Nr. Bletchley, Bucks.  
Smith, C. J., "Sunnymead House," Fenny Compton, Nr. Leamington.

## The Spongia Cure for Roup.

### Additional Notes.

My recent article in "Eggs" on the above subject has caused much widespread interest that I venture to add the following notes to assist fellow readers who may be in doubt on one or two matters that I did not make sufficiently clear. At the same time, I would like to explain that as I am assisting Mr. Newman to deal with some of the correspondence that has been pouring in I do not wish to conceal my identity under a "non de plume" any longer. I feel certain we have in Spongia something that is going to save the poultry industry thousands of pounds and

millions of miseries, and if this is so, I do not wish to lurk in the shadows, but to help you all I can out in the open.

Those of you who read my last article will remember that I advocated Spongia 30, and it was with this strength of the medicine that I had my great success in stamping out the roup. A number of people have not been able to procure this, but stronger solutions such as Spongia 1 or 3x. I have been asked to explain the difference in these various strengths.

I have again to thank my kind friend, who first made Spongia known to me, for the following information on this subject. He says: "First as to attenuation. The Greek letter  $\gamma$  following the name of a medicine stands for the strongest preparation of the drug, and the numbers 1, 2, 3, or 1x, 2x, 3x, etc., for the different attenuations. The figures 1, 2, 3, etc., refer to the centesimal attenuations, the proportion being in 1, one part of the strongest preparation of the substance to ninety-nine parts of the attenuating medium, and in 2, one part of one to ninety-nine parts of the attenuating medium, and so on. The figures 1x, 2x, etc., refer to the decimal scale of attenuation. 1x meaning one part of the strongest preparation to **nine** parts of the attenuating medium, whilst 2x means **one** part of 1x to **nine** parts of the attenuating medium and so on. To be more clear one might say that 1x means one nought to the division or denomination of the vulgar fraction, or one decimal point. 2x means two noughts or decimal points, 3x three, etc. Hence we have 3x equals  $1/1,000$  or .001, 1x equals  $1/10$  or .1, 9x equals  $1/1,000,000,000$ .

1 is very different from 1x. 1 is one-hundredth whereas 1x is one-tenth, 2x is one-tenth of one-tenth, but 2 is one-hundredth of one-hundredth. Therefore, while for 2x, 3x, 4x you add two, three or four noughts to the division or denomination of your vulgar fraction, or place four decimal points two, three or four places to the left, when you come to the figures 1, 2, 3 you must add **two** noughts for 1, **four** for two, **six** for three, and **two** noughts for every additional number. Hence 1 equals  $1/100$ , 1 equals  $1/10,000$ , 3 equals  $1/1,000,000$ , and **30 equals a fraction with 1 at the top and 1 at the bottom**, the bottom 1 being following by **sixty** noughts!"

It is therefore not surprising when we receive letters from well-known chemists asking us if "Pem" was quite certain what he was talking about when he wrote his article for "Eggs," and recommended Spongia 30? To this friendly query I replied that I **did** know what I was talking about and also that I saw with my own eyes that this infinitesimal fraction of Spongia was frequently administered so that it saved the Winnaway Poultry Farm from complete and ignominious extinction! The effect of this medicine, I repeat, was nothing short of miraculous.

There is no harm in using the more powerful strengths. I did so, but I found Spongia 30 worked more surely, and I believe I am right in saying that homeopaths have greater confidence

in the weaker attenuations of their medicines in certain diseases. But to quote my friend again:

You ask what "Spongia 30.1-grain tablet" means? Homeopathic medicines are usually made up in the form of little sweets, the base of which is sugar of milk, and they may be of one, two, three or four grains, whether they contain Spongia 1x or 30 or any other attenuation of the medicine. If you had a ten-grain sweet of Spongia 1x you would have in this one grain of the strongest form of Spongia, or if you had Spongia 1x in one-grain sweets and took ten of these you would be taking one grain of Spongia in its strongest form. For human beings I scarcely ever use the medicine stronger than Spongia 30, and very often I put only one grain of this into sixteen tablespoonfuls of water, and for an adult give one tablespoonful of this.

**The medicine in this liquid form does not keep its full power for more than a few days.** In the form of sweets (or tablets), if properly made, the medicine should keep good for **many years**, but I believe the liquid form acts more speedily than the sweet. There are many very celebrated homeopaths who use Spongia 200. If you want to know how much this is you must add four hundred noughts to the denomination of your fraction!"

I hear some people have not succeeded with Spongia. I do not know how they administered it, what strengths they used, or how long their birds had been suffering from roup, if it **was** roup they were trying to cure. I would suggest that they were using the liquid form of Spongia, which, perhaps, had been in stock a long time and had lost its curative power, or, again, that they had been employing an allopathic form of the medicine which, as my authority states below, "Is no good of," as we say in Berkshire.

The following quotations from two little American books may be of interest. The first are taken from "The Poultry Doctor," published as a second addition by Boetticke and Tafel at Philadelphia in 1908. "The homeopathic remedy for roup is Spongia, and if homeopathy has done nothing else for poultry breeders than to give them this remedy, it would merit their lasting gratitude . . . Spongia is the sovereign remedy for croup in children, as countless thousands could testify, and it is the same in croup or roup in fowls. . . Breeders, who heretofore had lost fifties and hundreds from roup find that their loss under Spongia diminished to next to nothing. The disease sometimes called 'rattle' in geese seems to be a species of roup and Spongia is the remedy for it. . . It may not be amiss to quote the following testimony from a correspondent of "The Poultry Keeper," a well-known journal: "When last I wrote I was trying it (Spongia) on a rooster that had the roup for six months. For a wonder it cured him up. You know I wrote you several times about losing my chicks with roup. Well, I lost three lots—150 in all. I kept on trying, and after using Spongia I have only lost a few." Another writes: "I am now pre-

pared to state that Spongia did it. . . . The facts are that from July, 1889, when roup invaded my flocks, until February, 1890, my chickens have yielded me very little income and less pleasure. Handling and dosing, isolating and fumigating until I was almost suffocated and entirely disgusted. One-third of my entire flock succumbed. Fact is also that, although **not** a believer in homeopathic remedies, I used Spongia this year. . . . and the most satisfactory result is that my birds never were in better health than now. Single examples do not prove a case, but if the experience of many others, which will not be slow to come in, should show that in Spongia we have a simple and effective remedy against so terrible a scourge as roup, the poultry fraternity may well congratulate itself."

Here again, "I tried turpentine, glycerine, and carbolic acid, in proper proportions without effecting a single cure, and also used chloralum and several other remedies without any good effect." I commenced Spongia about a week ago, and part of my birds are now well, and there is a very marked improvement in the rest of the cases." There are very many other similar quotations in this book which goes on to say: "It may not be out of place to emphasise again the **necessity** of getting **Homeopathic** Spongia to obtain these results. We once read an Allopathic professor's account of how Spongia is prepared, and can affirm if anyone administered the remedy prepared as he directed **no results would be obtained.**" The other book is "Poultry Sense," by Dr. J. P. Pursell, M.D., and published by him from "Grand View," Sellersville, Pa, in 1911. He says: "If your birds have roup you can give Spongia 3x and Mercurious Vions 3x, four doses per day in mash, drinking water, or let them take it as they like . . . and your birds will recover, if anything will cure them."

To jump from America in 1889 to England in 1922 is a very long jump indeed, but we still find Spongia doing its good work. A fellow-member of the S.P.B.A. writes under date November 28th, 1922: "My experience so far fully confirms all you claim for the Spongia. I have carried out exactly the treatment you prescribe with the best of results. Twenty cases have been swollen eyes and faces, and, although it is only ten days since I obtained the Spongia, there are to-day only six birds with any sign of swelling. These are the most recent cases, and they are the only birds now under treatment. In every case except one the Spongia had a marked effect on the day following the first treatment, and on the exceptional case an extra dose on the second day quickly took effect, and that bird, whose eyes were completely closed and the discharge had begun to sodify, is now perfectly normal." This writer ends up his letter thus: "I shall await with interest your further article in 'Eggs'—one page of which is worth all the other poultry papers put together." With this I agree most completely, and although it takes up a tremendous lot of one's time to write these articles, I feel it to be the

greatest satisfaction to write for a journal that is so alive and so progressive!

However, Mr. Newman's blue pencil may appear if we use these lines for propaganda, so I will conclude by telling you that I have had a most helpful letter from the Manager of the tablet department of Messrs. Boots, the well-known chemists. He is taking immediate steps to supply Spongia 30 to his 600 branches throughout the kingdom, and I can assure my readers that the compounding will be faithfully done and there will be no make believe about it.

I fear this article has been too long and too reminiscent of early school days, with all its vulgar fractions, to be palatable reading for many, but it is all due to Mr. Newman, who has kept me well posted with S.O.S. letters. But, as I said before, to me correspondence is a pleasure, more especially when it is to appear in so worthy a little paper as "Eggs."

Severn Storr,

The Winnaway Egg Farm,  
Harwell, Steventon, Berks.

## Testimonial.

TOM NEWMAN, ESQ.

Dear Sir,—

It may perhaps interest you to know that last week I inserted an advertisement in "Eggs" for the sale of some hovers I wished to replace with a larger plant.

From the moment the advertisement appeared till the publication of your next issue, I was simply inundated with applications, and could have sold the hovers many times over. Not only did I have telegrams from all parts, but many telephone messages and callers. I spent practically a whole day and a half returning cheques, Treasury notes and postal orders; in fact, the advertisement cost me no small sum in postage, and it was not possible to reply to the many applicants who enclosed neither an addressed envelope nor the amount, much as I wished to.

Yours faithfully,

GEOFFREY HALL.

## POST YOUR COPY EARLY

Advertisers are frequently disappointed in not having their advertisements appear in "EGGS," through the Copy not reaching us in time. This is due to the alterations in the postal delivery times.

We would therefore request that Copy should be posted not later than Thursday.

# INDEX FOR "EGGS."

VOL. VI., 1922.

## A.

Answers to Queries—9, 24, 36, 50, 59, 79, 89, 102, 117, 132, 145, 160, 169, 186, 199, 228, 237, 257, 271, 288. The Editor—294, 310, 323, 341, 369.  
Anatomy. Elementary—213, Dr. Clayton.  
Hen From Within—201, W. Powell-Owen.

## B.

Feeding—Line Breeding, 4; Anon, 48, G. W. Thompson. Broodiness in Relation—85, Lieut.-Colonel Hardy. Science in Relation—235, Professor Punnett. Sex Linked Inheritance—265. Editorial—355. Cockerel Value of—217, Miss Bayne. New Breeds—151, Editorial. Breeding—213, Editorial. A New Type 192, J. H. Raine. Pedigree Work—338, Miss Bayne. Remarkable Exhibit—355.

## C.

Cockerels—Surplus, J. H. Dowden—207. Value of, Miss Bayne—217.  
Commercial Egg Farming. Some Views on—86, 98, Lester Spurgeon.  
Cooperation—356, A. W. Lever.  
Correspondence—13, 26, 54, 67, 82, 95, 108, 120, 142, 172, 188, 207, 231, 246, 253, 273, 288, 299, 306, 328, 347, 360, 372.

## D.

Disease—Known Infectious Disease, Miss Knight—3, 19. Immunity, Miss Knight—19. Bacillary White Diarrhoea, Dr. Clayton—26. Bacillary White Diarrhoea, Miss Knight—67. Fowl Pest and Fowl Plague, Miss Knight—32. Diseased Germs, Miss Mylne—54. Coccidiosis in Rabbits and Poultry, Editor—70, 75. When Disease Comes, W. Hooley—120. Diphtheric Roup, H. Brooksbank—256. Aspergillosis, Miss Knight—276, 284. Spongia Cure for Roup, Fem—246, 374.

Ducks—Queries—11, 37, 62, 90, 134, 162, 201, 282, 297, 326, by Rev. Seymour Shaw. Ducks and Dry Mash, Tom Newman—35. Ducks and Dry Mash, Oscar Gray—260. Indian Runner and Khaki-Campbell, by Harold Paine—106, 131, 165, 198, 226, 269, 334. Utility Duck Club, Oscar Gray—260.

## E.

Editorial—The Rearing Problem—1. The S.P.B.A. Resolution at Leamington—15. National Poultry Parliament at Leamington—29. The Rearing Problem—44. Foreign Competition—57. Production and Nutrition—2. Harper-Adams' Conference—83. The Present

Position—97. Blood Spots in Eggs—111. The Table Poultry Industry—125. The Present Position—137. New Breeds—151. Making a Start—166. The National Poultry Council, Meeting at York—179. The Present Position—196. Some Causes of Failure—211. The Dairy Show—232. Marking of Foreign Eggs—251. Sex-Linked Inheritance—265. Capital—277. Large or Small Units—291. Producer and Consumer—303. Large and Small Units—317. Influence of Sire on Size of Egg—334. Eggs: Experiences in 1922, Lieut.-Colonel F. Macory—350, 365. Utility Show—363.

## F.

Finance—The Financial Element, John Meekings—237.

Fruit Growing and Poultry Keeping, Frank Smith—279. B. B. Stratton—304.

Foreign Eggs: The Marking of—171, 208, 251, 309.

Food and Feeding, Tom Newman—2, 16, 34, 64, 106, 114, 123, 152, 182, 225, 234, 267, 292, 318.

Feeding and Observation, Tom Newman—214. Why I Abandoned Wet Mash Feeding, Colonel Hardy—215. Nutrition and Re-production, J. Brooksbank—222. Maize By-Products, Col. Hardy—278. Linseed for Poultry, Miss Simpson—144. Danger of Salt, F. W. Wait—299. Dried Yeast, Colonel Hardy—348. Ducks and Dry Mash, Tom Newman—35. Dried v. Wet Mash, Miss Prideaux—301. Dried v. Wet Mash, Colonel Hardy—306. Digestible Nutrients of Poultry Feeds, Dr. Kaupp—351, 367.

## H.

Housing—Felt House, Colonel Hardy—172. Ventilation, M. M.—142. Ventilation, Colonel Hardy—123, 162. Building Felt Houses, Capt. Beattie—154. Houses of Felt, Tom Carter—158. Essentials of Poultry House Construction, Major Eden—176.

## I.

Incubation—Incubator Construction, Marcus Blade—139. Moisture and Incubation, H. Ellison—274. Testing Incubator Thermometers, Bostock Smith—329. Getting Out the Chicks, Miss N. H. Bell—330.

## L.

Laying Tests—Twenty Years of Hawkesbury College Test—14. Leghorns, Black—265, 302.

Lighting—Artificial Lighting, Clayton Smith—306. Artificial Light, G. W. Thompson—332. Artificial Light, Colonel Hardy—333.

## M.

Miscellaneous—Attending to Small Things, Senex Montis—56. Some Old Remedies—28. The White Orpington—27. Mangolds and Hatchability—67, 68. Bran: Is it a Stomach Irritant?—54. The Anthracite Stove and Ventilation—45. An Exemplary Sentence—1. The Bresse Fowl: A Balance Sheet, H. E. Hunter. The Table Poultry Industry—125. The Position Abroad, Editor—152. Have We Progressed, M. S. Taylor—347. Percentage Production Chart—208. Parliamentary Candidates and Poultry Industry—262. Black Birds Moulting White—300. Railway Rates—179. Poultry Keeping and Tenants of Council Houses—180.

## P.

Poultry Keeping and Fruit Growing, F. Smith—279.  
Poultry Farming and Fruit Growing, B. B. Stratton—304.  
Progress: Two Years of, A Student of "Eggs"—336.  
Poultry Farming: How to Start, Mrs. Rawson—147.  
Poultry Keeping in New Zealand, F. Fielding—76.

## R.

Rearing Problem: The, Editor—1, 43, 108, 125.  
Rearing Colony House System of, J. Meekings—38.  
Rearing Season: The, Miss Bayne—115.  
Rearing Chicks with Preparations of Cow's Milk, Colonel Hardy—92.  
Rearing Chicks Artificially, A. S. Estcourt—121.  
Rearing: Experiences In, Miss Ransford—129.  
Rearing Experience, A. Russell and Fagg—189.  
Rearing Mistakes, Editor—212.

## S.

Shows—The Dairy Show—233. Utility Shows 256, 307. Great National Show at Leicester—275. Grand International Show at Olympia—345. Sussex Agricultural Show—54.

Some Fruit Growing Notes to Help Poultry Keepers, F. W. Wheeler, F.R.S.B.—372.

S.P.B.A.—7, 17, 33, 47, 53, 78, 85, 100, 112, 125, 149, 155, 167, 185, 205, 252, 268, 294, 294, 313, 368.

S.P.B.A.: A General Meeting—241.



## BREEDERS' SPECIALITIES.

**ALEXANDER'S  
PEDIGREE POULTRY.**  
W. Wyandottes & W. Leghorns.  
Stamina—Fecundity—Type.  
**ROUGHTON via NORWICH.**

**Miss HARDMAN,**  
Member S.P.B.A. and N.U.P.S.,  
NYMET, DUNSFOLD, near GODALMING.  
White Wyandottes and Light Sussex.  
All Pullets trap-nested, and only good  
winter layers kept for breeding.

**F. A. HULME,**  
Heathfield Commercial Egg Farm,  
**HEATHFIELD, SUSSEX.**  
**WHITE LEGHORNS.**  
Large Flock. Egg average over 180, mated  
to FRANK SNOWDEN (direct). Cockerels  
from 240-egg dams.  
Hatching Eggs, Cockerels, Breeding Hens,  
Pullets.

**Book Now for Chicks from  
Tested Birds.**  
S.c. R.I. Reds. Progeny great layers.

Miss E. Gibson, M.S.P.B.A.,  
Glyn Coed,  
Woodfield Avenue,  
Wolverhampton.

**Major L. W. BIRD, D.S.O., O.B.E.,**  
Prince's Meadows Farm, Claygate, Surrey.  
Day-old Chicks till 21st March, 24/- per doz.  
March 22nd—21st April, 18/- per doz. April  
22nd—21st May, 12/- per doz. May 21st, on-  
wards, 8/- per doz. Eggs, January and  
February, 12/- per doz. March, 9/- per doz.  
April, 6/- per doz. May and June, 4/- per  
doz. Reductions on quantities over 50.  
From high-class Pedigree Laying Stock.  
Special Quotations for larger quantities.  
White Leghorns. Mammoth Incubator.

**FRAMLINGHAM.**  
Over 25 acres of exposed Grass Land.  
Speciality, White Wyandottes (Tom Barron)  
Only birds that have laid 200 eggs in pullet  
year and over 50 in second winter, bred  
from. Also White Leghorns (Barron's) and  
R.I.R.'s (Golden's). Eggs, 10/6; Chicks, 21  
per doz.  
White Wyandotte Cockerels, January, 1922,  
from hens with over 60 eggs in third winter  
from 21 each. White Leghorns, 15s.  
Apply—Manager POULTRY SECTION,  
"Broadwater," Framlingham, Suffolk.

**Crofts' Poultry Farm, Corbridge,**  
Northumberland (R. Harland, S.P.B.A.).  
**WHITE LEGHORNS.**  
HENS (1920/1), direct from Wm. Cook and  
Sons, St. Mary Cray, Kent, hatched from  
279-282 egg hens, mated to cockerels from  
296 to 298 egg hens. 1921 hens averaged  
over 201 eggs in pullet year. COCKERELS  
(direct from Mr. Frank Snowden), hatched  
from 260-270 egg hens, mated to cockerels  
from 282 and 284 egg hens. (Brother of pens  
in "Daily Mail" and Harper-Adams' tests).  
Eggs for hatching from above stock, 10/6  
for 15; 60/- per 100. Day-old Chicks, 21/- per  
dozen.

### WHITE WYANDOTTES.

**L. WILLIAMS.**  
Easton Poultry Farm,  
GRANTHAM.

Speciality:  
**STAMINA AND SIZE OF EGGS.**

**MAJOR E. P. WIDDICOMBE,**  
S.P.B.A., N.U.P.S.,  
Breeder of Highest Class Pedigree Utility  
Poultry.  
White Leghorns, White Wyandottes, Rhode  
Island Reds, Light Sussex, Australian  
Black Orpingtons, Indian Runner Ducks.  
Orders for Eggs and Day-Old Chicks now  
being booked.

**SHIPWAY POULTRY FARM,**  
TORQUAY, SOUTH DEVON.

**Miss N. B. MADDISON,**  
S.P.B.A., N.U.P.S.,  
**Dane Hill, Sussex.**  
**RHODE ISLAND REDS.**  
Winner of the S.P.B.A. and "Daily Express"  
Laying Test, First out of 100 Pens.  
Silver Cups, Medals, and other prizes  
gained.  
EGGS & DAY-OLD CHICKS now being BOOKED  
All Trap-Nested Pedigree Utility Stock.

**Rev. F. KENNEN, S.P.B.A.,**  
**Longborough Poultry Farm,**  
**GLOS.**

**WHITE LEGHORNS.** Pedigree. Trap-Nested.  
Settings, 12/6.  
Day-Old Chicks, 21/- per dozen.  
Stock Cockerels, 15/-.

**Mrs. G. A. MUNTZ, M.S.P.B.A.,**  
**WHISSENTHORPE, OAKHAM.**  
(1915-1923).

**LIGHT SUSSEX.**—Pen 1. Mated to Cock-  
erels (Slade's), from 260-egg dams, 10/6 set-  
ting; Pen 2, 7/6 setting.  
**WHITE LEGHORNS.**—Pen 1. Mated to  
Cockerels, dan's winners' championship,  
Bentley, 1920-1, 10/6. Pen 2, 7/6.  
**BROWN LEGHORN-LIGHT SUSSEX.**—  
The best of crosses, layers or table, sexes,  
colour, distinct on hatching.  
Vigorous Stock on wide range.

**R. H. BARLEE,**  
Successor to

**Mrs. SILVA JONES,**  
Freewaters, Ickleford, Hitchin.  
**LIGHT SUSSEX. WHITE LEGHORNS.**  
Rothschild-Leigh Strain. Tom Barron.  
All Pullets Trap-nested.

**R. M. THORBURN, M.S.P.B.A.**  
The Kirk House, Traquair, Innerleithen.  
Highest Class Utility  
**WHITE WYANDOTTES.**  
ANCONAS.  
Hardy Stock, bred and reared among the  
Hills of the Scottish Border.  
Trap-Nests Used Throughout.  
Settings: 10/6 for 15 Eggs, Carriage Paid.  
A Few Selected 1922 Cockerels, 15/- each.

### Miss ARGLES.

**DAY-OLD CHICKS**, bred from my famous  
White Wyandottes.  
Twice top score, once third in all Ireland.  
Laying Test in four years.  
White Leghorns, Miss Edwards' splendid  
Laying Strain.  
Cross-bred DAY-OLD PULLETS. Book now.  
Anstey Poultry Farm, ALTON, HANTS.

**The MISSES RANSFORD,**  
**White Leghorn Stud Farm**

All Birds Trap-Nested.  
All Birds on Free Range.

**PERSEVERANCE POULTRY FARM,**  
PENRFORD, BRISTOL.  
(Illustrated Catalogue on application).

**WALTER FOSTER.**  
Brook Vale Poultry Farm, Simister Lane,  
Rhodes, near Middleton, Manchester.  
Breeder of Pedigree Trap-nested Large  
Egg.  
White Leghorns and White Wyandottes.  
Eggs and Day-old Chicks.  
Cockerels and Pullets.  
Breeding Stock of the Highest Class.  
Particulars upon Application.

**G. RUDDLE,**  
**The Poultry Farm, Tangmere, Chichester.**  
Breeder of High Class Utility White  
Wyandottes. Awarded the medal presented  
by the Poultry Club to the pen at the  
Harper-Adams' Laying Test, possessing the  
best breed characteristics. Also ranked  
4th in the Laying Competition.  
Hatching Eggs from 12/6 per doz.  
Catalogue on Application.

**Moor House Poultry Farm,**  
**TOTON. NOTTS.**  
High-Class Utility Poultry.  
R.I.R., S.c. (Measures), Wyandottes  
(Hunters), W. Leghorns (Warwick Legend).  
Orders Booked for Eggs and Day-Old Chicks.  
A Few W.L. Cockerels, 10/- Each.  
Proprietor: Mrs. LITCHFIELD, M.S.P.B.A.

**Balsam Manor Farm. Partners: E. J.**  
Bingley and A. W. McKenay Hughes. Cross  
Coeurs and Houdans, from 20/- doz. New  
imported breeds with a future. Book now.  
Noires du Berry and Gatinaises. Settings,  
20s. doz. White Wyandottes, Black Wy-  
andottes, White Leghorns, Silkie Wyandottes  
Cross, from 10/- doz. Agents for one of the  
largest poultry farms in France, we can  
obtain Black, White, and Grey La Bresse,  
Salmon Faverolle (Tete D'Hibou), La  
Fleche, and all other French breeds. Send  
for illustrated catalogues to Balsam  
Manor Farm, Balsam, Cambridgeshire,  
and please mention "Eggs."

**White Wyandottes. TOM BARRON'S**  
STRAIN.  
All stock continuously trap-nested. A few  
1922 Cockerels. Dam's 285, 245, and 240 eggs  
in pullet year. Sire's dam 286 eggs.  
Prices 28s. to 30s., carriage paid.  
Orders taken for Settings and Day-Old  
Chicks.  
Breeding Pens headed by sons of "Lady  
Bountiful," 280 (240x) eggs in pullet year.  
Mrs. BURGESS, M.S.P.B.A., N.U.P.  
WOODSIDE, TENTERDEN, KENT.

**BREEDERS' SPECIALITIES.—Cont.**

Waterson, West and Brankston Marks Poultry Farm, Rettendon, Chelmsford. EGGS FOR HATCHING. White Wyandottes, White Leghorns, Rhode Island Reds, etc.

From stock recently inspected and selected by Mr. Tom Newman.  
10/- dozen; 60/-, 100.

DAY-OLD CHICKS. Double Above. Orders now being booked.

**TESTIMONIAL.**

Bromley, 22/3/22.

Chicks to hand this evening, all in the best condition. I am delighted with them.  
E. BURETT.

**G. TALBOT, S.P.B.A.**

Breeder of High Class Trap-Nested Utility Poultry.

White Wyandottes, White Leghorns, Rhode Island Reds.

Orders for Eggs and Day-old Chicks now being booked.

Beacon Dene Poultry Farm, Blackpool Road, Poulton-le-Flyde, Lanc.

**The LINES POULTRY FARM,**

TAKELEY, ESSEX, M.S.P.B.A.

Specialities: High Class Pedigree Utility Poultry, R.I.R. Sires Boucher direct from records 271 and 280; White Leghorns, from Padman, Hen records 246 to 260. Light Sussex and R.C. Black Leghorns. reared on wide range and under ideal conditions.

Orders now being booked for Sittings and Day-Olds.

Enquiries and Inspection Invited.

CLOVERNOOK POULTRY FARM, BICESTER, OXON.

Breeders of

Trap-nested WHITE LEGHORNS and WHITE WYANDOTTES.

DAY-OLD CHICKS and SETTINGS now being booked.

Catalogue now in Preparation.

**G. W. MILLER,**

Breeder of High Class Trap-Nested RHODE ISLAND REDS.

WHITE LEGHORNS.

LIGHT SUSSEX.

A Few Pullets for Sale in each strain. Inspection Invited.

MILL VIEW POULTRY FARM, TENTERDEN, KENT

Five Minutes High Halden Station.

**R. J. HUBBUCK,**

Member of S.P.B.A., N.U.P.S., and P.C.,

Pinehurst Poultry Farm, HEADLEY, HANTS.

Pedigree Trap-Nested

LIGHT SUSSEX.

WHITE WYANDOTTES.

Sittings, Cockerels, Hens and Pullets.

**Major DISNEY-ROEBUCK, M.S.P.B.A.**

Mrs. DISNEY-ROEBUCK.

Breeders of High-Class Trap-Nested Utility Stock.

LIGHT SUSSEX.

WHITE LEGHORNS.

CROAD LANGSHANS.

Hatching Eggs and Stock Birds.

Price List on Application.

HOO MEAVY POULTRY and DAIRY FARM,

Near YELVERTON, S. DEVON.

**Mrs. GOODDEN,**

West Coker Manor, YEovil.

Buff Orpingtons, Light Sussex, and White Runner Ducks.

Buffs at Harper-Adams' Laying Trials unbeaten 3 consecutive years by any other Orpingtons.

Sussex Records include 315, 301, 285, 276, per bird.

PLYLEWELL POULTRY FARM, S.P.B.A., N.U.P.S.,

SPECIALIST BREEDERS of

High Class Pedigree Trap-Nested Utility Light Sussex and White Leghorns.

Orders for Eggs for Hatching and Day-old Chicks now being booked.

Mating List Free.

LYMINGTON, HANTS.

FAYREMEAD POULTRY FARM, Ensbury, near BOURNEMOUTH.

WHITE LEGHORNS.

WHITE WYANDOTTES.

RHODE ISLAND REDS.

Breeding Pens L2 Hens (1921-2), with records 180/276, headed by proved Cocks, direct from Edward Cam.

Sittings, Day-Old Chicks, Pullets, and Cockerels.

WILLIAMSON and GREGG.

**MID-ESSEX POULTRY FARM**

Ramsden Heath, Billericay.

F. BIRD, M.S.P.B.A., Proprietor

S.C. R.I.R. Cockerels from hen with winter record of 81 eggs (non-broody), sire's dam's record 279 (also non-broody). Also W. Leghorns, ex Leghorns, W. Dottes, and Anconas. Trap-nests used.

Day-Old Chicks now being booked. Particulars with pleasure.

G. F. W. SCATCHARD, M.S.P.B.A., F.N.U.P.S.

White Leghorns, Black Leghorns, White Wyandottes, and Rhode Island Reds. Every bird trap-nested, and only L2 birds bred from.

Warren Poultry Farm, BIRKDALE, SOUTHPORT.

**FRANCIS J. MARSTON,**

S.P.B.A. and N.U.P.S.

Breeder of TRAP-NESTED UTILITY

Rhode Island Reds, S.C.

White Wyandottes.

White Leghorns.

Black Leghorns.

Sittings. Day-Old Chicks.

Stock Birds.

The BIDDENDEN POULTRY FARM, BIDDENDEN, KENT. Inspection Invited.

MRS. HARRY KENT,

Stanbridge Poultry Farm,

HOVE, near BATTLE, SUSSEX.

Breeder of Exhibition and Utility

BLACK LEGHORNS.

WHITE LEGHORNS.

LIGHT SUSSEX.

Illustrated Catalogue Free on Request.

C. E. WOODWARD,

"South Downs," Durrington, near

Near Worthing.

Commercial Egg Farmer.

P.C. Medal Harper-Adams' for Type and

First Grade Eggs.

WHITE LEGHORNS.

All Birds fed on "Marmite" and Cod Liver Oil and Best Foods containing the Vitamins for Hatchable Eggs.

Jan. Feb. Mar. Apr. May, etc.

Eggs, per doz. .... 9/- 8/- 7/- 6/- 4/-

Only, per 100. .... 70/- 60/- 50/- 40/- 30/-

No Replacements.

Cross-bred Eggs from March W1. x BL,

1/- per doz. less.

All Correspondence to: G. R. Hedges.

# **-a farthing a week for More Eggs!**

High production of eggs is simply a matter of ensuring that the natural vitaminic elements are present in the daily ration. SALUBRENE is the only known product which supplies these vital mineral salts. Add SALUBRENE without delay, and watch results!

# **SALUBRENE**

Obtainable from your dealer in 6d. and 1/3 packets, or we will send you a 7-lb. bag for 6/- post free. Write for free literature.

A simple organic product which adds invigorating and health-giving properties to the feed. It supplies vital salts, ordinarily missing, and positively ensures better health and increased egg production. All far-seeing poultry farmers use "SALUBRENE." Its cost is infinitesimal, and results beyond expectation—get some to-day.

**John Beharrell, Ltd.,**  
118, WINCHESTER HOUSE, HIGH STEET, HULL.

## Classified Advertisements.

### (PREPAID RATES).

1d. per word—minimum charge, 1s. 6d. Box numbers, 1s. 6d. extra, per insertion. Bold headlines inserted at an extra charge per insertion according to size as below:—

**DAY-OLD CHICKS** ... 9d. extra.  
**DAY-OLD CHICKS** ... 1s. extra.  
**DAY-OLD CHICKS** 1/6 ex.

Insertion constitutes acknowledgment of remittance in the case of pre-paid advertisements. For a series of 13 insertions or more a receipt is forwarded.

### SERIAL RATES.

3 insertions for the price of 2	
6 " " " "	4
9 " " " "	6
13 " " " "	8

N.B.—Advertisements, unless accompanied by correct amount, will not be inserted.

Advertisements must be distinctly marked with the Heading under which they are to appear.

Advertisements must be written on a separate sheet of paper, and on one side of the paper only.

Name and Address to be counted. In the case of a Box Number, being used, the words "Box," "Eggs," 94, Farncombe Street, London, S.E.16, to be counted as eight words.

Advertisements must reach this Office

### FIRST POST FRIDAYS

for insertion in the following Wednesday's issue. Those received after this time will be inserted in the next issue.

## Displayed Advertisements.

Ordinary Page, 5s 15s. 6d.; Half Page, £4 7s. 6d.; Quarter Page, £2 4s. 6d.; One Column, £2 18s. 6d.; Half Column, £1 9s. 3d. Quarter Column, 14s. 6d. 1 inch, 6s. 6d. Special Inside Pages, 25 per cent. on above rates. Cover and other Special Position by arrangements. Discounts for Series. Full scale of Advertising Rates on application.

ADVERTISEMENTS must reach Mr. F. J. CHURCHYARD, 94, Farncombe Street, London, S.E., by first post FRIDAY MORNING, for insertion in following issue. Advertisements received later will be inserted in the next issue.

A DEPOSIT SYSTEM has been adopted for Advertisements, and Advertisers are asked to make full use of same. When remitting direct to the Editor on deposit the full amount of purchase money should be sent and six penny stamps extra to cover cost of acknowledgment of same.

## FOR SALE.

### PULLETS.

#### WHY NOT HAVE THE BEST?

WHITE LEGHORNS, April-May, from my renowned high second strain; 15s., upwards. 1921 Hens, clean through moult; 7s., upwards. Carriage paid. Approval.—Jack Underwood, S.P.B.A., Reliable Poultry Farm, Sutton Bonington, Loughborough.

Hundreds 1922 Pullets, and 1921 Breeding Stock, R.I.B.'s and LEGHORNS, Crowley, Boucher, Padman. Stamp.—Longley, Ashwell Herts.

#### 200 PURE BRED R.I.R. PULLETS

February-March hatched, by sons of 306 302-egg hens; Boucher, direct from trap-nested and flock-recorded L2 hens only; many suitable for 1923 breeders. All in perfect health; free range reared; mature; from 15s. each. Fuller particulars on request.—Major Robert Lethbridge, Tiverton, Devon.

Pullets. 50 WHITE LEGHORNS (Padman), reared from well-known specialist breeders' stock; lovely lot of strong, healthy pullets; 75 per cent. laying; reared on Mr. Newman's Formulas. Full particulars given.—A. Woodward, Ivy House Farm, Denham, Bucks.

WHITE LEGHORN Pullets; Newman-Padman; May hatched; 10s.—Douglas May, Ilsted, Essex.

#### BUFF ORPINGTON PULLETS.

From L2 hens, sired by Thomas's Cockerel, brother world's record hen; 343 egg; 20s. each.—Alfred Wheatley, M.S.P.B.A., Charnwood, Gloucester.

20 WHITE LEGHORNS, 15 WHITE WYANDOTTES; early hatched; W. Cook and Sons' strain. Full particulars on application.—Maxted, S.P.B.A., Teynham, Kent.

### COCKS AND COCKERELS.

#### PEDIGREE STOCK COCKERELS.

February and March hatched W. WYANDOTTES, Barron's strain; fine healthy birds; February, 21s.; March, 17s. 6d. Pedigrees on application.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenthorpe, Sheffield.

REV. SEYMOUR SHAW, Warcop, Westmoreland, can offer Young Stock of great quality at much reduced prices. White Leghorns, Wyandottes, and Runner Ducks (all colours). Records to 269. Approval.

#### DR. BALDWIN'S DIRECT.

WHITE WYANDOTTE Cockerels, March hatched, bred from pens of tested parents and pens headed cockerels, bred from proved L2 birds; 25s. each, carriage paid; November and December.—Brooksbank, S.P.B.A., Station Poultry Farm, Hedon, East Yorkshire.

Twenty Selected WHITE LEGHORN Cockerels; March and April hatched; bred from trap-nested hens; 12s. 6d. each. Particulars on application. Send for 1923 mating list, now ready.—Richardson and Ashton, Birley Spa Poultry Farm, Hackenthorpe, Sheffield.

Pedigree WHITE LEGHORN Cockerels (Parson's), from dams with records from 220-260; price 15s., 17s. 6d., 21s. each.—Simmons, Fairview Poultry Farm, Hembury Fort, Honiton, Devon.

## BLACK LEGHORNS.

February and March hatched; Ingle strain; Cockerels, 18s., 15s., 21s.—Beaumont Booth, Wick Lane, Wickford, Essex.

RHODE ISLAND RED Cockerels, April hatched; Bostock Smith direct; two guineas.—Mrs. Burnell Wedmore, Remenham Hill, Henley-on-Thames.

## SALE OR EXCHANGE.

Cockerels, bred from valuable stock obtained from Boucher, Bostock Smith, Burgess, Eden, and Hunt. RHODE ISLAND RED, LIGHT SUSSEX, and BUFF ROCKS, March and April hatched; 15s. each, or will Exchange for 1921 BLACK LEGHORN Hens (trap-nested).—Jamaica, Cherry Tree Poultry Farm, Sanderstead, Surrey.

February, 1922, Cockerels, WHITE WYANDOTTES (Barron), R.I.B. (Crowley), fine healthy birds, reared Tom Newman's formulas; records sent; 25s. each, carriage paid.—Richards, S.P.B.A., Perslake Poultry Farm, Stoke Canon, Exeter.

## G. H. VENNER'S WYANDOTTES.

Splendid, vigorous, February and March Cockerels, bred from 245 record hen, 244 eggs; also some from 286 record hen, 304. Prices from 20s. each.—Venner, Shottadane, Margate.

Few very fine WHITE WYANDOTTE Cockerels (Barron), February; 25s. approval.—Milestone Egg Farm, Patribourne, Canterbury.

WHITE LEGHORN Cockerels (February-March), from prolific hens; splendid birds; 15s., approval.—Milestone Egg Farm, Patribourne, Canterbury.

## WHITE WYANDOTTE COCKERELS.

From L2 hens, sired by cockerel from 26 egg hen and cock from 290-egg hen; vigorous and healthy; 15s. each.—Alfred Wheatley, M.S.P.B.A., Charnwood, Gloucester.

## R.I.R. COCKERELS.

Correct Dark Colour. Few splendid coloured R.I.R. Cockerels; good type; dark top colour, and sound; sons of 21-27, 248-231 hens; March hatched; ideal for utility shows or breeding correct utility reds; price £1 1s. each.—Capt. Conyers Lang, Hartwell, Aylesbury.

## PEDIGREE COCKERELS.

### PURE BOUCHER'S.

RHODE ISLAND REDS. Hens' records from 266 to 310. Sire, son of Champion Hen, record 1,045 eggs in four years; reared on right lines; vigorous healthy birds; 25s. each. Also

## THE COMBINED STRAIN.

ARISTOCRAT. Four grand 1921 Cockerels. Brookhurst Best Pen. Successful exhibitor at Tottenham and other big Utility shows; grand colour. Will improve any strain for colour and laying; 35s. each.—H. Hadland, South Green, Billericay, Essex.

**LIGHT SUSSEX** Cockerel, from 257 hen; large brown egg; March hatched; three guineas, or exchange equal pedigree. Also few Pullets; 15s. Nine **SPECKLED RUNNER DUCKS**; three Drakes; -Donald Watson strain, containing prize winners; £5, or near offer. - Bainbridge, Keyneston, Wiltshire.

**WHITE LEGHORN COCKERELS**, April hatched; Bostock Smith, Lester Spurgeon; 1s. 6d. each.-Mrs. Ferguson, M.S.P.B.A., Poplar Farm, Langley, Maidstone.

## EGGS AND CHICKS. WATLINGTON POULTRY FARM, OXON. DAY-OLD CHICKS.

We are now open to receive orders. W. Wyandottes, W. Leghorns, Rhode Island Reds (s.c.), W. Orpington. Prices on application. Special reductions for 100 or over. Carriage paid, orders over £5.

## LIGHT SUSSEX ONLY.

All pens mated to sires, dam's records from 200 to 284. Eggs from £2 to £3 per W. Chicks from £5 to £6 10s. per 100. Illustrated Catalogue sent on application. -O. Frederic Preston, S.P.B.A., N.U.P.S., Wiltshire, Andover.

## HATCHING EGGS.

Two year old **WHITE LEGHORNS**, mated 270-egg cockerels; 6s. dozen; 40s. hundred; carriage paid; order now for January onwards. - H. Chesterton, Chidmington, Sussex.

My Breeding Standards guarantee  
**A SOUND INVESTMENT**  
in

## HATCHING EGGS.

trap-nest tested 12 Hens (big egg layers only), mated to Tested 12 Cocks and individual bred Cockerels. Reasonable prices. 10 per cent. reduction orders booked before January 1st. It will pay you to send NOW for FULL particulars. W. Wyandottes, W. Leghorns, Black Leghorns.-H. Rawlinson, Wyndwood P.F., Horeham Road, Sussex.

**LIGHT SUSSEX SITTINGS**, from Hens of good type and prolific layers of large eggs; 11 trap-nested as Pullets, and now on free range; 8s. 6d. doz.-Capt. F. S. Pardoe, Bradley Agricultural School, Mitcheldean.

## HATCHING EGGS AND DAY-OLDS

**WHITE LEGHORN** and **R.I. RED** Eggs; 1 Day-Olds, 16s. per dozen. Boxes, and carriage paid. Book now for delivery from January; first order for dozen eggs opened Tuesday morning post supplied free.-Miss L. Harrison, S.P.B.A., N.U.P.S., R.I.E.C., Haremont P.F., West Burton, Aysgarth, Yorks.

## CHICKS! CHICKS! CHICKS!

Book now for delivery, January 23rd onwards. **RHODE I. REDS** (Golden's), **WHITE WYANDOTTES** (Barron's); 16s. dozen, carriage paid. Cash with order.-Sam Norrish, Utility Poultry Breeder, Hebden Bridge.

## F. CAREY-BOUCH.

**ELMSFIELD POULTRY FARM,  
OTTINGE, Near CANTERBURY.**

## FLOCK AVERAGE OVER 180.

Specialises in **WHITE LEGHORNS** (Cam-Padman). Sittings from registered pens, 15s.; Sittings from general pen, 12s. 6d. Average over 207 recorded eggs. Day-Old Chicks from registered pen, 30s. doz.; Do. from general pen, 25s. doz. Order now.

## DAY-OLD CHICKS & BREEDING EGGS.

Pedigree, Trap-nested **WHITE WYANDOTTES** and **WHITE LEGHORNS**. Orders booked.-Culver House Poultry Farm, Chudleigh, Devon.

## PEDIGREE CHICKS.

Ready January 28th. **WHITE WYANDOTTES**, **RHODE ISLAND REDS**, **LIGHT SUSSEX**; 20s. doz., carriage paid. From high-class trap-nested Utility Poultry. Leghorns later.-A. Cole, S.P.B.A., Albert Road, St Austell, Cornwall.

**HATCHING EGGS**. From my stock winning Gold and Silver Medals at Harper-Adams. **R.I. REDS**, **W. WYANDOTTES**, and **W. LEGHORNS**. Large or small quantities. Low rates for contracts. - South Hants P.F., Romsey.

## EASTMAN BROS.

The Suffolk Poultry Farm, Hadleigh.  
**HARDY PROLIFIC TRAP-NESTED  
STRAINS.**

**R.I.Red**, White Wyandotte, Light Sussex, Buff Orpington, Barred Rock, Ancona, White Leghorn, Black Leghorn.

## RELIABLE EGGS.

8s. 6d., 12; 17s., 25; 30s., 50; 55s., 100. Unfertilised replaced.

## STURDY CHICKS.

17s. 6d., 12 35s., 25; 67s. 6d., 50; 130s., 100. Live delivery guaranteed.

Our birds have been selected by the use of trap-nests for many years. Hardiness and High Laying Qualities are the characteristics of our strains. We have over 3,500 birds mated, and all eggs and chickens supplied are produced on our own farm. We guarantee satisfaction, and the fact that our customers come to us year after year, proves that we give it. Illustrated Catalogue Free.

**LOW PRICES FOR LARGE ORDERS.** or regular supplies. May we quote you?

Now Booking Eggs and Chicks from my Registered Pen **WHITE LEGHORNS**. Also **R.I. REDS**, **LIGHT SUSSEX**, and Cross-bred Day-Old Pullets. (All Trap-nested Stock). - Particulars, Rhymes, Northway, Tewkesbury, M.S.P.B.A.

## GUARANTEED DAY-OLD PUL- LET CHICKS ONLY.

**LIGHT SUSSEX** (Tom Marks direct) x Brown Leghorn (Street-Porter direct); 42s. doz., less 5 per cent. booked before Jan. 1st.-Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

## WHITE AYLESBURY DUCK EGGS.

(Abbott direct); 1s. each. Less 5 per cent. booked before January 1st.-Mrs. Athol Stuart, M.S.P.B.A., Boxmoor, Herts.

**SPECIMEN MATING.** Boucher Hens, records over 220 large eggs. Mated tested 1921 cock, Boucher's direct. Dam 274 24oz. eggs. Sire's dam 258, 260, 251 24oz. eggs in three years. Eggs, 10s. doz. Chicks, 20s. doz. Other Pens, 7s. 6d. Also White and Black Leghorns, Barnevelders. List.-Miss Clark, Leafmore, Liss, Hants.

## BUFF ORPINGTON DUCKS.

For eggs, meat and beauty. My pen at National Laying Test laid 1,017 eggs in 44 weeks (more than the best pen of pullets). Fertile eggs ready. - Captain Heseltine, Ropley.

## EARLY HATCHING EGGS.

Over-Year **WHITE LEGHORNS**, mated Priest and Shaw Tested Cocks. 6s. dozen; 40s. hundred, carriage paid. Delivery from January 1st.-Buchanan and Prentis, Barney, Guist, Norfolk.

## WHITE LEGHORNS and R.I.R.'s, S.C.

Utility Prize Winning Strains, mated entirely to cockerels from Dr. Baldwin's No. 1 Pen, are sons of hens with 294-256 egg records. Prices 7s. per doz., carriage paid. Large reduction where no carriage and on quantities. Catalogue and particulars on application.-John P. Harding, Knowle Hill, Witchampton, Wimborne.

## DUCKS AND DRAKES.

For Sale, 40 trap-nested **FAWN** and **WHITE RUNNER** Stock Ducks; hatched 1921, with individual records from 183 to 216 in 12 months. Would divide into breeding pens of five or six; prices according to records. Suitable Drakes for mating to above from dams with records of 240 to 299, at 20s. each. Can also offer Six Drakes from 314-egg dam at 25s. each. Duck Trap-Nests for sale.-Particulars from Huxley, Bryngomer P.F., Pontrhydryn, near Newport, Mon. (S.P.B.A.).

## B. DUNKERLEY, FREESTON, S.P.B.A.

Offers pure **WHITE RUNNER DUCKS** (Taylor's), 1922 hatched. Naturally reared on grass and running water. Hardest possible open-air laying stock. Well grown and laying, or on point. 8s. each, £4 for pen of dozen picked birds. Carriage paid. No rubbish, as I have a reputation to maintain.-Higham Poultry Farm, Higham, near Colchester.

## FIRST AND GOLD MEDAL.

## BUFF ORPINGTON DUCKS.

Single Bird Test, Cheshire Section, **WYANDOTTE**, 224 first grade eggs, one second grade; 1st and special Eggs, Alton. Fertile eggs ready, none sold under 20s.-Captain Heseltine, Ropley.

Seven **AYLESBURY DRAKES** (Street-Porter direct); May hatched; 12s. 6d. each. -Eccles and Briggs, Fenton Hall, Wickford, Essex.

## GOATS.

**TOGGENBURG GOATS**, in kid to "Ganeesh of Munstead," due February; £3 3s.; second kidding, and £1 1s. first kidding. Carriage paid.-Ida Wild, Dalwood, Kilmington, Devon.

## RABBITS.

Lester Spurgeon, Wistlers Wood, Woldingham, Surrey, breeder, pedigree giant Blue Beverens. Youngsters for Sale.



**APPLIANCES.****GALVANISED CORN BINS.**

1 cwt., 8s. 6d.; 2 cwt., 14s.; 3 cwt., 21s. 4 cwt., 26s. 6d.; hinged lids; carriage paid. —Hudson, Sheet Metal Works, Patricroft, Lancs.

A Sample of the **MIDDLESEX TRAP-NEST FRONT** sent on approval, post free, for 3s. 6d. User writes: "Just what I have been looking for, am very pleased with it." Will fit existing nests.—Inventor and Maker, F. Bird, M.S.P.B.A., Mid-Essex Poultry Farm, Ramden Heath, Billericay, Agent Plasack Cold Brooder. Vacancy for Pupil.

**TRAP-NEST FRONTS**, never fail; last life time; 24s. doz.; sold on money-back principle.—Bevan, Potters Heath, Welwyn, Herts.

**ROOFING FELTS**

"Superfelt," Ashwell, Herts.

**WIRE NETTING**

Best galvanised. British only; stamp list. Superfelt, Ashwell, Herts.

**SUPERFELT**

Builds vermin and draught-proof houses without boards; stamp for samples. testimonials.—Superfelt, Ashwell, Herts.

**GLASS SUBSTITUTE**

Samples, stamp. — Superfelt, Ashwell, Herts. Reduced.

**STANWORTH - SOOLE ANTHRACITE BROODER STOVE**; excellent condition; only used six broods; £6, on rail.—Pye, Rydalls Egg Farm, Crawley Down, Sussex.

**TWO H.C.B. UNIQUE HOVERS**, 250 size, new last season; £4 each, on rail. Installing larger brooders. — Teagles' Farm, Takeley, Essex.

**THE "WOOLLASTON" TRAP-NEST FRONT.**

(Patent Applied for)

It is so simple, efficient and easily set; can be used for Heavy or Light Breeds; is most workmanlike, and the cheapest on the market. Price 2s. 6d. each, carriage paid on six or more. Also Sets of Six Complete Nest Boxes, with Trap Fronts, Perches and Wall Clamps (no brackets required); 33s. per set. Made, used and proved for three seasons on my own farm. —H. A. Hall, M.S.P.B.A., Woollaston Hall, Wellingboro', Northants.

**MAMMOTH INCUBATOR.**

**NEWTOWN GIANT**, 1,200-egg size, self-turner, Thermometers, Stove, complete; in perfect working order; £65, carriage paid. —Pailthorpe, Longdown, Exeter.

For Sale. **HEARSON** 250-egg **INCUBATOR**; only used three times; condition as new; all accessories; £15, f.o.r.—H. Salter, The Thorns, Edenbridge, Kent.

Four **PHOENIX ANTHRACITE BROODER STOVES**, complete, with hovers and pipes, 250 size; perfect order; £3 10s. each, cost £7 7s.—Beeches Poultry Farm, Mobberley, Cheshire.

Two **GLOUCESTER INCUBATORS**, 100, 150, self-turning trays; splendid condition; equal new; £12 the two.—Shaw, Carisbrooke Poultry Farm, Portishead, Som.

**MIXING TROUGHS.**

Mixing the Mash is usually a Make-shift Business. Use one of my Troughs, and you will do the job and do it properly in half the time. Stout Galvanised Tank in a heavy timber frame, raised to convenient height for working. Indispensable to those mixing large quantities. 2ft. 6in. x 4ft. 0in. £3, carriage paid; 1ft. 6in. x 3ft. 0in., £2, carriage paid. Sides of both tanks 12in. high.—E. T. Lowton, Sheet Metal Worker, Haddenham, Bucks.

**TAMLIN HOT-WATER BROODERS** (100 size); £4 10s. each. **HEBDITCH**, £3 10s.; **HEARSON ANTHRACITE STOVES**, £4 10s.—Gordon, Copsy Poultry Farm, Beamish, Co. Durham.

**STANWORTH-SOOLE BROODER STOVES**. Three for sale; in good condition; complete with piping, etc.; £6 10s. each. — Milestone Egg Farm, Patricroft, Canterbury.

Complete **BROODER HOUSE**, Hot-Water Boiler and Piping, comprising "Ideal Premier Boiler," No. 121. Water capacity 7½ gallons, heavy surface, eight square feet, stands 3ft. 6in. high, rocker bottom, automatic regulator filling tank and piping, water thermometer, draw-off cock, 12ft. cast-iron flue piping and cowl, 150ft. 1½in. pipes, bends, and connection to make 36ft. double flow and return pipes, will heat twice this quantity. Used only one season. Guaranteed in perfect condition. Water temperature does not vary 5 degrees. Price £30, carriage paid. Owner's accommodation unsuitable. Also 65-egg "Buck-eye" Incubator. Excellent hatcher. £3, carriage paid.—Tomlinson, Clayton Poultry Farm, Newcastle, Staffs.

**ANTI-DIPHTHERIC SERUM.**

Prepared by Biological Institute Murioux (ex-assistant Pasteur Institute) cures and prevents Diphtheric Scurf, Contagious Catarrh, Diphtheritis, Canker, Successfully tested in France by myself during three years' farming.—Full particulars from exclusive agent, M. McLaren, M.N.U.P.S., M.S.P.B.A., 185, Handside Lane, Welwyn Garden City, Herts.

**JUST WHAT WE WANT.**

to prevent wooden incubators absorbing the moisture from the eggs and causing dead-in-shell. Then use non-absorbing oils by giving one or two coats inside of incubators and egg trays every year; they are quick drying, harmless and disinfecting, 2s. 10d. per bottle. Sufficient to cover 14 square feet, post free.—Only and always to be had from W. C. Searle, S.P.B.A., 22, Coutts Road, London, E.3.

**WOGSBARNE "PUKKA" TRAP-NEST FRONT.**

Completely open when set. No wires or other impediments. Set with one hand in a second. Only one bird can be trapped at a time. Price 2s. 9d. each. For Ducks, 3s. 3d. each. Carriage paid on a dozen upwards. Terms: Cash with order. For sample send postage 9d.—E. N. G. Harper, Wogsbarne Poultry Farm, Rotherwick, Hampshire.

**CEDAR LITTER.**

The Cleanest and Best Scratching Litter, 10s. per cwt. (two sacks); 40s., 5 cwt., carriage paid.

**GRANULATED CHARCOAL.**

Guaranteed quality. Fine, medium, or coarse; 21s. cwt.; 11s. 6d., ½ cwt., carriage paid. Also Peat Moss, Litter, Dried Yeast, Dried Flies, Grits, Meals, etc. Special quotations for bulk quantities. Enquiries solicited.—Samples free.—Bygrave and Co., Anwell, Ware.

Brand New 1921 Double 45 **GLOUCESTER**, self-turning trays; electric tester; £7 10s. Orate free. — Max Savage, Illey Road, Oxford.

"GLEVUM" **FOSTER - MOTHER**, 150 chick, new last season; complete and perfect; price £5. Further particulars on application.—Marted, Teynham, Kent.

**HEBDITCH INCUBATORS**, 150-egg, £4; 45-egg, £4. Nearly new, in perfect condition.—Oarbery Poultry Farm, Stockbridge, Hants.

**FOODS.****DERBYSHIRE LIMESTONE GRIT.**

2s. 6d. cwt.—Thornhill, Great Lopham, Derbyshire.

**POULTRY CHARCOAL**

DIRECT FROM

**THE MANUFACTURERS**

A Large Sample Packet of "LATHAL OOL" (Regd.) for Chicks or Adult Hens sent Post Free for 2s. 6d. A Midland Poultry keeper writes:—"Latharcoal" is much better than ordinary Charcoal.—J. R. Lathan and Co., Ltd., 65, Eastlake Road, London, S.E.5.

**FINE SWEDES**, 2s. cwt. bag. Cash with order.—Ball, M.S.P.B.A., Biddenden, Kent.

**MIXED GRIT**, Oyster, Flint, Cockle, Crosshill; 5s. cwt., f.o.r.; 8s. 6d., carriage paid, under 140 miles. Samples free.—Midland Grit Co., Stourbridge.

**CLIPPED ENGLISH OATS.**

Fine Quality White, 14s. cwt., f.o.r. reduction quantity below.

**SUSSEX GROUND OATS.**

Superfine Quality; guaranteed pure; 14s. cwt., f.o.r. Reduction quantity. Samples free. Cash with order.—Floyd, Merchants, King's Lynn.

**MISCELLANEOUS.**

**HOLYROOD POULTRY FARM**, Hall Road, Cottingham, East Yorkshire. Telephone: 27 Cottingham. 1922, 7 awards, first prize Cottingham Poultry Show, Sept. 21st. **WHITE LEGHORNS**, **WHITE WYANDOTTES**. Pure-bred Utility Birds. A limited number of Cockerels, March hatched; splendid birds; good type and stamina. Now booking order for Hatching Eggs and Day-old Chicks at Reduced Prices to suit the times.—M.S.P.B.A.

**IDENMORE POULTRY FARM,  
HOOK, HANTS.**

**WHITE WYANDOTTES**, large eggs, large birds, splendid records and gamina. Stock bred, all with individual records, to make room for young stock. Cockerels, by son of Cam's Supreme, and other first-class pedigree stock. Table Birds, milk fed. The young stock has been entirely free this season from any form of diarrhoea, or any other disease. Casualties from all causes under 8 per cent., including weaklings from incubators. — For particulars and prices, apply to Brig-General Macconchy, Edenmore, Hook, Hants.

**WHITE WYANDOTTE COCKERELS**, March hatched, Rev. Birkett's strain.

**KHAKI-CAMPBELL DRAKES**,

stippler strain, March hatched; 15s. each. Mr. Banks, Poultry Farm, Chalk Street, Standon Common, Essex.

Seven **WHITE WYANDOTTE** Cockerels (arron); 10s. 6d. each; from dams of over 2 eggs. Also six **WHITE INDIAN RUNNER** Drakes (Shaw); 10s. 6d. each, carriage paid. — A. Denby Wilkinson, Craven Cottage, pwell, near Wisbech.

Miss E. A. BAYNE, Specialist Breeder of best Quality Pedigree Utility **WHITE WYANDOTTES**; good early 1922 hatched illets may be booked for delivery end of January; 31s. 6d. each. A few fine Cockerels left; bred from tested parents; 35s., 1, 63s. — The Chalet, Stocksfield-on-Tyne.

Two 1920 **ANCONA** Cocks; cost two lineas; Darracott direct last year; 20s. each. 1921 Pullets, Wilson, Hurts, direct; 6d. each. 1922 Pullets, same, 8s. 6d. each. Mrs. Brooks, Rushton, Cotebrook, Tarpot.

Send Stamp for Price List. — E. F. Christie, Norton-le-Moor, Lincoln. — **BUFF ROCKS**, **WHITE WYANDOTTES**, **TURKEYS**, **KHAKI CAMPBELL DUCKS**.

50 **WHITE LEGHORN** Breeding Hens, arch, 1921 (Soole-Metcalf); surplus to own requirements; 10s. 6d. each. Also few **WHITE RUNNER** Ducks (Taylor's); 7s. 6d. each. — Shaw, Carisbrooke Poultry Farm, Whitehead, Som.

**WHITE ORPINGTONS**,

quality birds for eggs, meat, andauty. Write for list. — Captain Heseler, Ropley.

**GOOD STOCK AT  
REASONABLE PRICE.  
WHITE LEGHORNS.**

Imman strain. All carefully selected, bred and reared specially for egg production. Hatching Eggs, 5s. per doz.; 35s. per 1; Day-Olds, 12s. 6d. per doz., £4 10s. per 1; Pullets, 1922, £1 each; Stock Cockerels, 15s. each. — M. Colombe, F.Z.S., S.P.B.A., Wlands Egg Farm, Kidmore End, Oxon.

**WHITE ORPINGTON**. Four Pullets (February, 1922), W. Cook and Sons' best as direct; 20s. each. Two **WHITE LEGHORN** Cockerels (January, 1922), W. Cook and Sons' "Ideal" strain; 15s. each. One **BLACK BRESSE** (Ounslow-Piercy), Cock 21), proved stock getter; perfect specimen; 20s. — Marted, S.P.B.A., Teignham, int.

Pen, **FAWN** and **WHITE RUNNERS**, five Ducks and unrelated Drake; two years; all laying; Mrs. Upjohn's strain; price, £4 10s. Pen **BLACK MINORCAS**, exhibition strain; lovely birds, fit to win; eight hens, two years unrelated cockerel; laying; price £15.—Budd, "Munby," St. David's, Exeter.

15 **BLACK LEGHORNS**, five **WHITE WYANDOTTES**, 1921, laying; two **BLACK LEGHORN** Cockerels, February hatched; Cook's strain; together with various portable houses; new condition. Wire Netting. Hurdles, Gates, six feet, Sundry Appliances, together or separate. No reasonable offer refused. Must sell.—Apply any time or telephone (Bromley 2051), 13, Brackley Road, Beckenham, Kent.

Sittings and Chicks. **WHITE WYANDOTTE**, Cam and Johnson-Cam strain; dam's records 241-266; sire's 288; all stock trap-nested; 15 eggs 10s. 6d. Chicks 17s. 6d. dozen. Orders received now.—Todd, Hershman House, Walton-on-Thames, Surrey.

**LIGHT SUSSEX.**

**P. B. ADAMS.**

East Franklynns, Hayward's Heath, originator of Franklynns strain; the best strain of the best breed; now booking Sittings and Day-Olds.

Day-Old **W. WYANDOTTE** Chicks, from grand sons of Cam's "College Queen," mated with record layers; orders booked now for end of January onwards. Price, 30s. per dozen. — Miss Heavyside Peat, Gisbham Rectory, Lowestoft.

Advertiser can sell reliable, guaranteed **NEW LAID EGGS** on small commission for well-organised poultry farms.—Box No. 207, "Eggs," 94, Farncombe Street, London, S.E.16.

**BREEDING PENS.**

**WHITE WYANDOTTE BREEDING PEN**. Eight Hens and unrelated Cock. Cam's strain; price six guineas, worth 10 guineas. — Ellinger, Sherbrooke, New Milton, Hants.

When you want English or American Poultry Books try—Foster, 48, Blackwall Buildings, Whitechapel, London.

**PARTNERSHIPS.**

**YOUNG MAN**, with £500 capital, to invest in Egg Farming, wishes Partnership with person similar means and intentions. — Box 204, "Eggs," 94, Farncombe Street, London, S.E.16.

**PUPILS.**

**POULTRY FARMING**. — Miss Bennie, Balgownie, Kingcase, Prestwick, Ayrshire, offers pupils thorough training, all branches. Practical and Theoretical.

Vacancy for **RESIDENT LADY PUPIL**; moderate charges for board only. — Miss Beaumont, Woodville, Four Oaks, Birmingham.

**POULTRY FARMING**. — Vacancies for Pupils. Good Theoretical and Practical Training on several modern farms. For prospectus, apply, Preston, Wildhern, Andover.

Beeches Poultry Farm, Mobberley, Cheshire.—**VACANCY** for one Pupil; Up-to-Date Poultry Farming, in all branches. Also Head of Pedigree Pigs kept. Accommodation near at hand.

**LADY or GENTLEMAN PUPIL** Wanted, for Modern Utility Poultry Farm; tuition for services rendered. All branches taught. Reference required. Board out.—Tansyknowe Poultry Farm, Bothwell, Lanarkshire.

**FARMS FOR SALE.**

**FOR SALE, AS A GOING CONCERN, A POULTRY FARM**, in South Dorset, in all about 34 acres; good substantial Stone-built Buildings, comprising two cottages, stabling, coach-house, barn, piggeries, cow-house, granary, etc. Well-stocked market garden. The whole of the stock, including about 600 head of poultry, poultry houses, incubators, a governess car, a four-wheeled lorry, two ponies, etc., etc. Freehold. Vacant possession. Price for the whole, including goodwill, £4,550, or near offer, for quick sale.—Further particulars from the Owner's Sole Agents, Plummers, Auctioneers, Swanage.

**WANTED.  
MISCELLANEOUS.**

Wanted, Quotations for 30 dozen **FERTILE EGGS** weekly. White Wyandottes, from flock of January, February, March, 1922 pullets, on free range, which have averaged 26 eggs per bird for nine weeks, October 6th to December 13th; mated to cockerels; dam's records 247 and 265. Also four dozen **K-Campbell Duck Eggs** weekly. — Mrs. Lovegrove, Gratwicke, Partridge Green, Sussex.

Wanted Three **WYANDOTTE**, February hatched Massive Cockerels; also Three **WHITE LEGHORN** 1921 Cocks. If desired, would exchange Three February 1922 Barron's sire's dam 282; hens 220 to 250, for latter. State full particulars.—Slapton Egg Farm, near Leighton Buzzard.

**ROOMS WANTED.**

Wanted, THREE **FURNISHED** or **UNFURNISHED ROOMS** in Farmhouse, within 45 miles London terminus; could give benefit of seven years' poultry-farming experience during week-ends. Refined couple, two young children.—Particulars to Box 205, "Eggs," 94, Farncombe Street, London, S.E.16.

**SITUATION VACANT.**

Wanted, **FEMALE PARAGON** for nothing. Otherwise a strong Gentleman, over 25, to share house expenses; help with incubators, chicks, traps; when I'm out, willing to cook our dinner week-about, and able to drive pony. A gardener by preference, as she could work garden and keep the profits. I think there are 150 fruit and 50 cob nut trees. Over 600 in family (not counting bees); increasing rapidly. — Moncrieffs' Poultry Farm, Little Mongellam, Deal.

Wanted, in January, Experienced **POULTRY WOMAN**, with good brooding knowledge, for Commercial Egg Farm. Write, giving experience, qualifications, and wages required.—Glebe Poultry Farm, Balcombe, Sussex.

**FARM.**

Wanted, Rent or Purchase, 4 to 10 Acres of Land, or Small Fruit and Poultry Farm. — Box 203, "Eggs," 94, Farncombe Street, London, S.E.16

# MILK

Providing you use the right quality is the best food for poultry of all ages, and gives better results in every possible way than Fish or Meat Meals. The BEST is always the Cheapest, poor quality milk is dangerous to use, and should be avoided.

GET

## MILKO MILK POWDER,

The Finest Dried Milk on the Market. Used on many of the largest poultry farms in the country. Tons sold every week.

All who mix their own foods should order NOW, as the demand is great. 1 cwt., 28/-; 5 cwt., £6 15s.; 10 cwt., £13; 1 ton, £25. Free on Rail for Cash, with Order. MILKO LAYING MEAL, a Complete Food Ready for Use, 21/6 per cwt.; £4 4s. per cwt., carriage paid.

## MILKO FOOD CO.,

FLEET HOUSE, FLEET STREET, LONDON, E.C. 4.

## I WILL MATCH MY PENS

of  
SPECIALLY SELECTED R.I.R., WHITE  
WYANDOTTE, WHITE and BLACK LEG-  
HORNS TO HANDLE.

As well as other Advertiser's Birds, who  
charge less than 60/- per sitting.

MY PRICE: 10/6 Per Dozen.

Eggs from Flocks, similar pedigrees,  
6/- Per Dozen.

Special Reduction for Incubator  
Quantities.

**HODKINSON, M.S.P.B.A.,**

HOLYWELL, HUNTINGDONSHIRE.

## K. E. FIELD-HART'S White Leghorn Eggs

0	7/6 per dozen,	0
0	£3 " 100.	0
0	£27 " 1,000.	0

From Carefully Culled Two-year Hens,  
mated to cockerels from hens with trap-  
nest records of from 60 to 79 in three  
winter months.

The Limberlost, Heathfield, Sussex.

## A PROSPEROUS NEW YEAR

IS THE WISH OF

**STANLEY BARNES & CO.,** TIMBER  
MERCHANTS,

67. DALE STREET, LIVERPOOL.

TO ALL MEMBERS OF S.P.B.A.

When replying to Advertisements please mention "Eggs."

## ROBERT MILLER, The Poultry House Specialist And Originator of Exchequer Leghorns



MILLER'S PARADISE HOUSE

For Twenty Years

**ROBERT MILLER** has been the  
Pioneer in all Poultry Matters!

His Poultry Houses are unique in  
design, quality and value. His thou-  
sand of customers proclaim them Best,  
Best, Best, every time.

His Exchequer Leghorns are world-  
famous, as the Greatest Utility Breed  
extant.

Grand Early Hatched 1922 Cockerels,  
now ready, on two days' approval:  
15/6, 35/6, 50/6, and 100/- each.

Beautiful Art Catalogue, post free, from

**ROBERT MILLER, -  
DENNY, SCOTLAND.**

**Send for it To-day.**

Interesting Pamphlet:

**BREEDING  
RHODE ISLAND REDS.**

PRICE 6d. POST FREE

FROM

**W. H. L. HURMAN,  
"Grasmere," Banwell, Somerset.**

**Wilson's Poultry and Duck Meal.  
PRICE REDUCED.**

£16 ton. 17s. cwt., f.o.r. Bags free. Cash with order.  
Carriage Paid. Price and Sample Post  
Free.

**JOHN C. BANNISTER & CO., Ltd.,  
Easingwold, YORK.**

**SELF-TURNING TRAY.  
7/6 Each.**

By using the Whitenap Self-Turning Tray  
time and money is saved. Takes up no  
room on egg tray. Specially adapted to  
Hot-Air incubators. Eggs can be turned  
instantly as many times a day as desired  
without removing the egg tray.

When ordering send inside measurement  
of tray, and please mention paper.

Full particulars enclosed with each  
turner. Can be fitted in a few minutes.  
**WHITENAP POULTRY FARM, ROMSEY.**

If you desire the most profitable Life Assurance Contract, it will pay you to get a Prospectus from the  
The Largest British Mutual Life Office. **AUSTRALIAN MUTUAL PROVIDENT SOCIETY.** (A.M.P.) Established 1860.

ASSETS	£48,000,000	NEW ORDINARY BUSINESS for 1921	£1,250,000
ANNUAL INCOME	£7,000,000	TOTAL ORDINARY ASSURANCES IN FORCE	£137,000,000

PURELY MUTUAL. ALL PROFITS BELONG TO POLICY HOLDERS. EVERY YEAR A BONUS YEAR.

Cash Surplus (Ord. Dept.) Divisible, 1921, £1,400,000. Individual Bonuses equal to those for 1914. No suspension Ann. Bonuses during War.  
London Office: 73-76, KING WILLIAM STREET, E.C. 4. W. C. FISHER, Manager for the United Kingdom.



# E. LESLIE PATTISON,

Weston Coyney Hall, Longton, Staffs.

**White Wyandottes, Rhode Island Reds, White Leghorns**

**ALL STOCK REARED ON FREE RANGE. 60 ACRES GRASS & WOODLAND.**

## STOCK COCKERELS.

Bred from selected Hens with 2, 3, 4 and 5 years complete records by sires bred from proved L2 birds.

**Full Pedigree with every bird.**

Pullets all ages from 12/6.

Recorded Breeding Hens.

## COMPETITION.

Should Cause a Great Reduction in Prices in 1923.

**AGES DOWN. FOOD COSTS DOWN.**  
Laid Eggs in March (wholesale) will be more than ONE PENNY each.  
WHY SHOULD 1920 Prices be asked for Sittings and Day-Old Chicks.

## WHY? WHY? WHY?

propose to LEAD THE WAY, and enable others of "EGGS" to obtain Sittings and Olds from Choice Trap-Nested Stock at 1923 Prices.  
P.C. will bring you my Mating and Price List.

R.I. Reds, Light Sussex, White Wyandottes, Black and White Leghorns, Barnevelders.  
Two-year-old Stock Hens, Stock Cocks and Cockerels are from the best breeders in Great Britain.

Every Bird Trap-Nested for Winter Records.

Approved by Ministry of Agriculture for Training of Pupils.

Many Testimonials.

## T-COL. A. G. THOMAS,

Pedigree Poultry Farm,  
BURGESS HILL, SUSSEX.

Member Poultry Club, S.P.B.A., B.R.I.R.C.  
President, Hayward's Heath Feather and Fur Society.

## COD LIVER OIL and CONDIMENT of COD LIVER OIL and MALT EXTRACT.

Best Norwegian Cold Drawn Pure Oil.  
Half Gallon, 4/-; One Gallon, 7/6.  
Tin Included.

Condiment Ready to Blend into Mash.  
lbs. 7/6. Cwt. 56/- All carr. forward.

Condiment is a meal equally impregnated with the Oil and Malt, forming a smooth ingredient that will not go lumpy.

4-lb. Sample, 3/- per parcels post.

## DOBBIE & CO.,

Food Specialists,

Waverley Works, LEITH, N.B.

(Established 1870).

My Two Entries in the Twelve Months' INTERNATIONAL LAYING COMPETITION, 1921-1922, at MISSOURI, U.S.A., have been astonishingly successful.

My FIVE W. WYANDOTTES laid 1,281 (average 256 per bird), which is a higher average than ever obtained by any pen of any breed in any English Competition, and thus won first prize.

My W. Leghorns won third prize and first Individual Leghorn Prize.

The above two entries won four Silver Cups, six Cash Prizes, and 50 Prize Ribbons.

In English Competitions, with White Leghorns only, my birds have won many prizes, and proved remarkable as layers of first grade eggs.

**HARPER-ADAMS.** 1st and 6th and Bronze Medal.

Northern at Burnley, 2nd prize

"Daily Mail" Test, 15th prize

**100 White Leghorn Cockerels from 21/- each.**

And a few W. Wyandottes at 42/- on Approval. Carriage Paid.

My Leghorns won all first in S.P.B.A. Stock Test, 1918/1919.

My Leghorns are much larger than most Utility strains, and many of them would win in Utility Shows.

List Free.

**WARWICK ROGERS,**  
ROSE HILL, MARKET DRAYTON, N.S.

**Mrs. CHARLES CARTWRIGHT,**  
S.P.B.A.,

**Welland Valley Poultry Farm**  
SEATON, UPPINGHAM.

Having mated her breeding pens, can offer a few Ancona, White Leghorn and Light Sussex Hens or Pullets at 15/- and 21/- each, or mated Breeding Pen of Six Birds for £4 5s. 6d.

Also a few White Runner Ducks at 7/6 each (Taylor's Strain).

All the above carriage paid, England and Wales.

Spring List out 21st December.

Please send your Name and Address, and it will be sent you.

Further Particulars from the Manager.

**Mrs. ATHOL STUART, M.S.P.B.A. & N.U.P.S.**

**Boxmoor, Herts.**

W. Wyandottes, Cam and Tom Barron, both direct.

R. Island Reds (s.c.). Boucher, Crowley, and Measures, all direct.

Light Sussex, Tom Marks direct.

W. Leghorns, Tom Barron, direct.

Black Leghorns, Burn Murdoch, direct.

White Orpingtons, Cook, direct.

H. F. C., of Exeter, writes,

16/2/22.  
"Am delighted to be able to tell you the fertility is 100 per cent."

EGGS: 21/-, 15/-, 12/6 doz.

CHICKS: 42/-, 35/-, 30/- doz.

5 per cent. Discount on all orders booked before January 1st.  
Catalogues sent and enquiries answered by return.

**R. LAVALLIN PUXLEY,**

**Windyridge Egg Farm,**

**WOODCOTE, OXON.**

Now booking Sittings from finest trap-nested

**WHITE WYANDOTTES,**

Winter records: 40-90 (all 12) year flock average 192, large eggs; mated finest pedigree cockerels.

**BLACK LEGHORNS,**

Finest Selected Winter Layers (Ingles' strain), mated to superb males (Forges).

**From 10/- per 12. 37/6 per 50.**

Few Magnificent Cocks, Cockerels and Pullets for Sale.

N.B.—All my own stock to be reared from above pens.

Quotations for Quantities.

## "MULTEGG" Laying—Meals

Are producing astounding results, and the reason is not far to seek. They are IMPREGNATED by a perfect system, which assures a positively uniform distribution of

## COD LIVER OIL.

They are manufactured from the same quality ingredients as are so persistently advocated in "Eggs" week by week, namely, the BEST. This is the "MULTEGG" standard, past, present, and future.

	per cwt.
"MULTEGG" Intensive Laying Meal, contains Alfalfa	22/-
"MULTEGG" Laying Meal	21/-
"MULTEGG" Dry Mash	19/-
Sussex Grounds Oats, 95 per cent. pure Oats	20/-

Cash with order. Bags Free.  
Carriage Paid to nearest Railway Station, or to your door if within railway delivery area.

Therefore your first cost is your last cost. Interesting Pamphlet. Price List, and Samples of all "MULTEGG" Specialities, post free, on application.

5 per cent. Discount on all orders received through the S.P.B.A.

**R. SMITH & SON, S.P.B.A.,**

**SPECIALISTS IN POULTRY FOODS,**

**Queen Street Granaries,**

**HEMEL HEMPSTEAD, HERTS.**



# GOOD HEALTH

WITH YOUR VALUABLE STOCK IS

## ASSURED

IF YOU PROTECT THEM AGAINST SHARP CHANGES BY USING

## "FIBRENT"

ASBESTOS-CEMENT

For your Poultry Houses, Laying Sheds, etc. VERMIN PROOF. ROT PROOF.

### Corrugated



### Roof Sheets.

Flat Sheets for Walls, Partitions, &c., Easily and Economically Fixed

PANEL SHEETS FOR SPECIAL INTERNAL DECORATIVE WORK.

In writing, please state for what purpose required.

### The British Fibrocement Works, Ltd.

Manufactured  
only at

**ERITH, KENT,**

Head Office  
and Works.

Telephone ERITH 89.

London Office: Central House, Kingsway,  
Telephone GERRARD 6483. W.C. 2.

Birmingham Office: 14, New Street.  
Telephone: CENTRAL 7292.

Manchester Office: 97, Bridge Street.

Telephone: CITY 7856.

Bristol Office: 28, Baldwin Street.

Telephone: BRISTOL 272.

Also at Glasgow, Swansea, Dublin and Belfast.

## THE WOODLANDS POULTRY FARM.

WATCH THIS  
SPACE WEEK  
BY WEEK.

### SECURE AT ONCE

One of the fine R.I.R. STOCK COCKERELS I am offering at 35/-. Worth £4 to £5.

Splendid Colour and Fully Developed Birds. Mrs. Beales' Strain. Pedigree Given with each Bird. Sent on Approval.

EGGS FOR HATCHING

DAY-OLD CHICKS

AGENT FOR:-

THE SUPERBATOR.

The Super Incubator.

THE CARLTON SIMPLEX, 45/-.  
The Ever-Ready Poultry-Man's Barrow.

Write for Illustrated Booklet of the Farm, etc.

**SHIRLEY G. MORRIS,**

M.S.P.B.A., M.N.U.P.S.

HOUGHTON-ON-THE-HILL,

'Phone: 14 BILLESDON. LEICESTERSHIRE.

Write for Particulars of the "Woodlands" Poultry House. The House Made to Last.

## E. JOHNSON, THE POULTRY FARM, SILVERDALE, STAFFS.

WHITE LEGHORNS

WHITE WYANDOTTES

R.I. REDS and BUFF ROCKS

Selected Vigorous Cockerels from 17/6 to 50/-  
1922 Pullets from 10/6 Hens with records of 200 to 240

Specially mated Breeding Pens at Reasonable Prices

Let me know your requirements.



"UP-TO-DATE"

BOXES

(Wooden)

For EGGS and Chicks are Second to none and have been

Officially passed by all Railway Companies, and are guaranteed to comply with their regulations.

Illustrated List Free.

Special Discount to S.P.B.A. Members

**W. & T. MARKHAM, S.P.B.A.**  
(Dept. A.),  
QUENIBOROUGH, LEICESTER

BEAUTY — with — UTILITY

Gonville Bungalow Poultry Farm, Hurst  
HOBLEY, SURREY.

**J. S. FENWICK, P.C., N.U.P.S., S.P.B.A.**

Member of Poultry Club Utility Committee.  
Breeder and Successful Exhibitor of High Class Utility Poultry.

White Wyandottes. Black La Bresse.  
Light Sussex. White La Bresse.

Also Exhibition Cread Langshan and Black Sumatra Game.

Utility Breeding Stock, selected by W. Powell-Owen, Esq. Nearly all pens tray nested. Second with Wyandottes, S.E. College, Fye Winter Laying Test, 1921. Over 200 prizes and awards in 15 months at all the Leading Shows.

Poultry Club Utility Challenge Cup won four times, also Silver and Bronze Medals. Handsome Illustrated Catalogue free on application in mid-December.

Sitting of Eggs, Day-old Chicks, and a Limited Number of Stock Birds for Sale.

## HIGH PEDIGREE COCKERELS

Individually Bred.

## WHITE LEGHORNS.

Dam. Sire's  
Dam. — Feb. 1921

275 24oz. egg.  
Bentley Non-Such  
253 in 48 weeks at  
1920 National.

Heaviest layer in the whole test 282 24oz.

egg by 264 42/100

474 24oz. egg ... 287 24oz.

in two years ... egg by 295 45/100

461 24oz. egg ... 287 24oz.

in two years ... egg by 295 42/100

244 24oz. egg ... 282 24oz.

egg by 264 25/100

Also S.C. Anconas and S.C. Rhode Island Reds.

Exceptionally fine specimens, combining  
HIGH FECUNDITY with STAMINA.

Few TESTED COCKS, 1921. Trap-Nested  
HENS, and 1922 PULLETS for Disposal.

I guarantee every Egg, Chick and Bird to be laid, hatched and reared on my own farm, which is the leading Pedigree Trap-Nested Farm in North Yorkshire.

Satisfaction Assured.

**ROWLAND COOKE, S.P.B.A.**  
KELDHOLME POULTRY FARM  
KIRBYMOORSIDE, YORKS.



Patent No. 172434.

THE HOVER THAT MOTHERS THEM  
IN PERFECT  
Health Comfort and Brooding  
IS ASSURED WITH  
**UNIQUE—HOVERS**

The One and Only Hovers embodying  
Special Features for Successful Chicken  
Rearing.

Catalogue Free.

**the H.C.B. Poultry Appliance Co.,**  
Willow Bank Farm,  
**LITTLE MOSS, ASHTON-U-LYNE.**

"Eggs" gets into the hands of people  
who respond very well to advertising of  
goods which appeal to them.

## COCKERELS.

We still have a few magnificent, early  
hatched birds, in both White Wyandottes  
and White Leghorns, individually bred  
from high fecund hens, at

**21/- to 63/- Each.**

Also a few 1921 hatched White Leghorn  
Cockerels, full brothers to our Burnley  
Winners (Championship Section), at

**30/- to 50/- Each.**

All Stock Sent on Approval.

This Year's Successes include:—

1st at Burnley (Championship Section):  
White Leghorns.

2nd at Harper-Adams (Illuminated Section),  
White Leghorns.

2nd at National (White Wyandottes).

2nd at Midland (White Wyandottes).

7th at Harper-Adams (White Wyandottes).

## HATCHING EGGS AND DAY-OLD CHICKS

now being booked.

Price List and Further Particulars on  
application.

**S. & J. PARSONS,**  
The Poultry Farm, Musbury, Devon.

Try us for your WET AND DRY MASHES,  
made to your own requirements.

We offer the following:—

	per cwt.	s.	d.
NEWMAN'S POULTRY MASH	15	0	
MIDDS	11	0	
BRAN BROAD	11	6	
BRAN ORDINARY	8	6	
MAIZE GLUTEN FEED	12	0	
SUSSEX GROUND OATS	20	0	
CLOVER MEAL	18	0	
ENGLISH CLIPPED OATS	16	6	
Special Line Best MEAT MEAL	21	0	
GRANULATED CHARCOAL	20	0	

Everything for the Poultry Keeper kept in  
Stock.

Bags Free and Free on Rail. Cash with  
Order.

**DRAKARD & CO., Ltd.,**

Corn Merchants,  
PUBLIC HALL, HADLEIGH, ESSEX.

## "Puzzled."

As to large or small units are you?  
In either case you must use the Best Foods  
at the lowest possible price—a sound reason  
why you should come to us.

	per cwt.	s.	d.
Newman's Laying Mash	15	0	
Newman's Breeding Mash	16	0	
Maize Germ Meal	14	0	
Maize Gluten Meal	13	0	
Maize Gluten Feed	13	0	
Maize Meal	11	0	
Kibbled Maize	12	6	
Wheat	12	6	
Oats (Scotch)	15	0	
Broad Bran	9	6	
Fine White Middlings	13	0	
Ordinary Middlings	11	0	
Sussex Oats	17	0	
Limestone Grit	3	6	
Cockle Shell	5	6	
Peat Moss	5	6	

Bags Free. Carriage Forward.

Also "Nitrophos" and "Bycolla" Fish  
Meal, Meat, Biscuit, Clover, Alfalfa Meal,  
etc., etc.

**FRANK SHEARN & CO., Ltd.**

**MIDSOMER NORTON, SOM.**

'Phone 51.

## ANCONAS.

EGGS . . . . . that will Hatch.

CHICKS . . . . . that will Live and Lay.

PRICES . . . . . that are reasonable.

CATALOGUE . . . . . that is sent free.

SATISFACTION assured, if you get them from  
"Homeatlast."

**VICTOR P. WILLIAMS,**

Homeatlast Poultry Farm, THE DOWN, BEXHILL, SUSSEX.

## MUSTARD FOR POULTRY.

Nature's Vegetable Tonic for Winter  
Months warrants the outlay by larger  
Egg Yield.

lb. 2/8, 4 lb. 4/4, 9 lb. 9/-, per Parcels Post.  
lb. 25/-, 55 lb. 36/-, carriage paid by rail.  
ask with order. "Poultrykeeping for the  
Million in the British Isles," free on request

**DOBBIE & CO.,**  
HAVERLEY WORKS, LEITH, N.B.

The  
**S.P.B.A. BADGE.**

Gold Letters on Blue  
Enamel.

1/- post free.

**TOM NEWMAN,**  
The Beeches, Rudgwick,  
HORSHAM, SUSSEX.



The value of Poultry can only be  
recognised when fed on properly pro-  
portioned food.

Therefore send to us to-day for Price  
List and Samples of the

## "WILLOW" POULTRY FOODS

Our Complete Laying Meal will stand  
any test for Purity.

Special Discount to S.P.B.A. Members.

Sole Agents for Scotland for  
Ibbotson's Poultry Appliances.

Note Address:—

**Falkirk Poultry House Co.,**

**FALKIRK and MILNATHORT.**

Telephone 76.

**BARNEVELDER PULLETS.** Also Good  
Breeding Pens of 20-21 Bantams. Wyandottes.

**LAKENVELDER.** Sumatra, Polish, Plymouth Rocks, and all other Varieties.  
Also all kinds of Water Fowl, Fancy Pheasants, White, Black Winged Blue and Specier Pea Fowl, Partridges, etc. Send Threepence for Reply. Orders booked now for Eggs.

**G. VAN HECK, 199, Amsteldyk, Amsterdam.**  
Many Testimonials as to Enormous Success

**THE SURREY VALUE Co.,**  
REDHILL, SURREY.

For Poultry Houses and Appliances.  
Tomber, Galvanised Iron, Asbestos Sheets.  
Sole Sussex and Surrey Agents for  
Sydenham Hannaford's  
**PIONEER HOVER and CYCLE HATCHER.**  
Inspection Invited. Satisfaction Guaranteed.

Let us quote for your Requirements.

Catalogues Free.

'Phone 290.

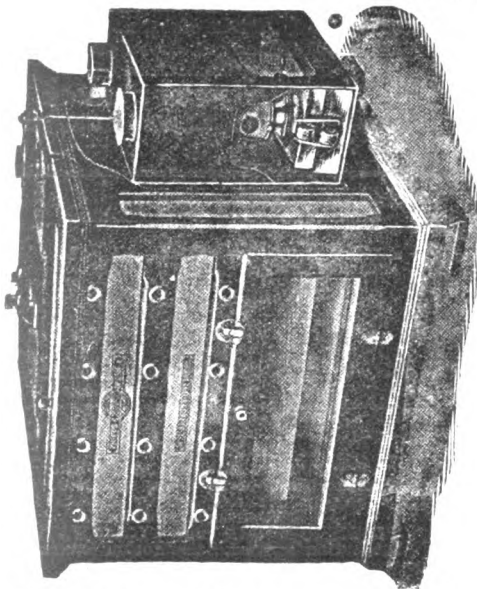
**KHAKI CAMPBELL DUCKS.**—FIRST and GOLD MEDAL at the National Laying Test, 1921-22—1,188 Eggs.

**BUFF ORPINGTON DUCKS.**—Our Pen is now Leading its Class at the National Laying Test, 1922-23.

**PELLING PEDIGREE POULTRY FARM, HAYWARD'S HEATH.** Miss BARBARA RAYE (Managing Partner).



# For the 26th time



Phipps' "PERFECTION" Incubator.  
Ironstone Hot-Water Model.

Phipps' "PERFECTION" Incubator is without doubt the world's best hot-water hatcher. It has secured 95 Highest Awards at all the leading shows and for upwards of twenty-five years has been the leading hot-water machine on the market. Every feature of the "PERFECTION" Incubator is one of outstanding merit and a distinct advance in artificial hatching development.

Phipps' "PERFECTION" Incubator.

30 egg size	£6 15 0
60 "	8 10 0
100 "	10 0 0
200 "	15 0 0

"PHIPPS" Incubators at the Grand International Show again secured the Gold Medal against all competitors in open competition, making the 96th time in succession that these famous machines have been placed ahead of all competitors. Truly a great record.

H.R.H. THE PRINCE OF WALES paid a visit of inspection to the "PHIPPS" exhibit, and was greatly impressed by the beauty of the workmanship and the correctness of the design of these world-famous Incubators. As a result he placed an order for "PHIPPS" Incubators. Follow a good lead, and see that the machines you buy are "PHIPPS" Incubators. The best is best always.

The measure of an incubator means the eagerness to own it. In that respect "PHIPPS" Incubators are fortunate in their following. Never in poultry-history has any product been so greatly desired.

The one thought of A. E. W. Phipps, the inventor and designer of the "PHIPPS" Incubator, is to keep alive by transcendent merit the eagerness to own one of these famous incubators which exists the world over to-day. In the light of this unique record "PHIPPS" reputation has assumed almost heroic proportions.

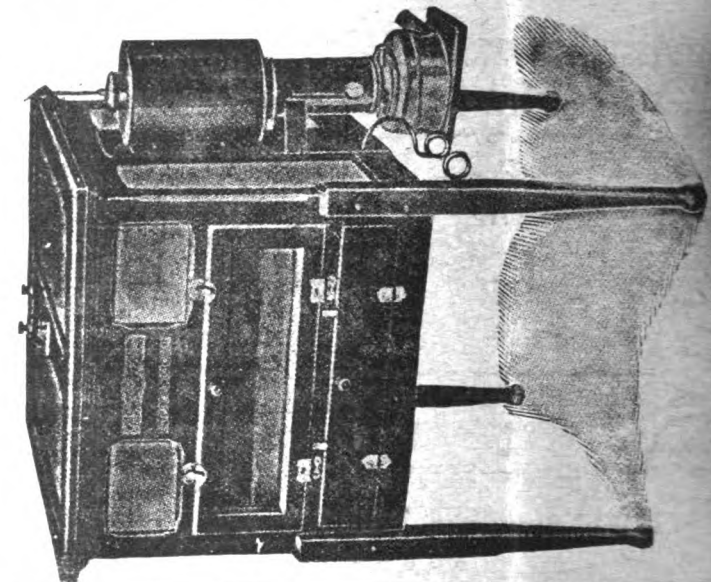
Where unflinching economical hatching is desired "PHIPPS" Incubators have won the confidence of thousands by giving dependable service at low cost. If you want best results hadn't you better write for a copy of "PHIPPS" Art Catalogue without delay? Remember the hatching season is close at hand.

*PHIPPS' Incubators and Brooders can be bought on Easy Terms from J. G. GRAVES, Limited, Sheffield, or THE SERVICE CO., 292, High Holborn, London, W.C. If purchasing on these terms please write either firm direct.*

## A. E. W. PHIPPS,

### Midland Works, No. 4,

## HARBORNE, Birmingham



Phipps' "PREMIER" Incubator.  
Ironstone Hot-Air Model.

The secret of the hatching success of the marvelous Phipps' "PREMIER" Incubator is built right into it—the dual heating device making it the only uniformly-heated hot-air machine on the market. The ventilator is perfect, and the regulation and ventilation are absolutely correct, so that the "PREMIER" will keep its heat almost as long as the hot-water model and the cost of operation is half that of any other machine on the market.

Phipps' "PREMIER" Incubator.

70 egg size	£6 15 0
110 "	7 15 0
160 "	8 10 0
260 "	11 10 0
400 "	15 0 0

# COOKS' OF RPIINGTON

Under the direction of W. H. Cook, England's foremost breeder, judge and expert, only send out hardy and reliable Pedigree Stock on 4 Year Days' Approval.

**UTILITY** Pullets for Shows and Laying Competitions or your garden offered, at prices to suit all requirements, from 21s. each. Also Laying Cockerels in all popular varieties from 25s.

Whatever you are wanting, write for our free advice and help are at our disposal. If able, visit our farm to select your own Stock. We can show you lots to interest you. Over 8,000 Utility Ducks and Poultry actually in stock. All at W. H. COOK'S personal attention and guarantee.

Eggs for Sitting guaranteed fertile from 400 pens, at 21s. per dozen.

Export orders to any part of the world at our risk.

Full List, with Hints, Post Free.

**W. H. COOK, LTD.,**  
"Cooks' Poultry Farm,"  
**RPIINGTON, KENT**

*We sell  
the Eggs-you  
share the Profits*

Join the  
**BRITISH EGG  
PRODUCERS LTD**

2, LINDSEY STREET,  
SMITHFIELD MARKET ED.

**BEST POSSIBLE  
PRICES OBTAINED.**

Prospectus free  
on  
Application

*did it hurt? No!*



**OWLOX**  
CHICKEN TOE PUNCH

Card of sixteen  
earrings given  
with each

JUST ONE NIP AND  
IT'S FORGOTTEN

It is just the thing for identifying chicks. For superior to rings which only annoy the birds and become foul in use.

**CLARKES F STATION APPROACH, REDDITCH**

**Mrs. ALEC WILSON**  
Still has a few First-Class  
**UTILITY WHITE WYANDOTTE  
COCKERELS**  
From her Trap-Nested Prize Winning  
Hens.  
She is Booking Fertile Eggs.  
**DAY-OLD CHICKS for FEBRUARY.**  
Write for Free Catalogue.  
**Garth Wyandotte Farm,**  
GARTH, BRECONSHIRE.

**The DUNHOLME HUMID HOVER.**



(Patent applied for).

AWARDED Certificate of MERIT at  
the WORSLEY SHOW, Aug. 23rd, 1922.  
Don't Fail to write for Our New  
Illustrated Catalogue and Price List.  
Sent Free on Receipt of Post Card.

**SAMUEL N. ASHWORTH,**  
(P. Dept.), DUNHOLME TIN WORKS,  
33, HIGHER ARDWICK, MANCHESTER.

TRAP-NESTING CARDS, 6 1/2 x 12 1/2 inches,  
1 doz., 1/3; 50, 3/9; 100, 6/6; 250, 15/-.  
Trap-Nesting Record Books, 6/-.  
Hatching Record Books, 7/6 and 11/-.  
Stud Books for Fowls, 6/-.  
Incubator Records, 1/8 doz.; 7/- per 100.  
Backyarder's Complete Record, 8d.  
Specimens Free.

**RIPPIN & BAKER,**  
THE NEWARKES, LEICESTER.



**WELL-BRED BIRDS  
PLUS THE**

**"TOOKTOOK" Poultry  
Foods**

**FORM AN IDEAL COM-  
BINATION FOR HEAVY  
EGG PRODUCTION.**

per cwt.  
"TOOKTOOK" Mixed Grain - 15/6  
"TOOKTOOK" Laying Meal - 15/6  
"TOOKTOOK" Dry Mash - 16/6  
Carriage Extra.

The name "TOOKTOOK" is a guaran-  
tee of scientifically balanced mixtures  
of the very highest quality at economic  
prices.

ALSO  
**PURE DRIED BUTTERMILK**  
15/- per 56-lb. pkge. 5/6 per 14-lb. tin.  
per cwt.  
GLUTEN FEED (Oil 3%, Alb. 23%) 11/-  
PURE WHITE FISH MEAL (Guar-  
anteed 60% Alb. min.) - 18/6  
DRIED YEAST (Scotland) - 22/6

Carriage Paid on Yeast.  
Othere Carriage Extra.

Terms—Nett Cash with Order.  
Special Prices delivered, or free on rail.  
English and Irish Ports on application.  
Complete Price List FREE.

**MACFARLAN,  
SHEARER & CO.,**  
Poultry Feeding Specialists,  
**GREENOCK.**

**JOHN GODFREY & Co., Ltd.,**  
STAMFORD,  
For Up-to-Date

**HOUSES and APPLIANCES.**  
TRY US.

Known throughout the County as makers  
of the best quality only.  
PRICES REASONABLE.  
Satisfaction Assured. Catalogues Free.



## Leckhampton Poultry Grit.

### THE IDEAL GRIT AT LAST.

A Mineral Food without equal. Makes Mastication easy. Produces perfect eggs.

This grit is a natural blend of Fish-Shell and Limestone—deposited by Nature in the form of a conglomerate rock.

Its Use Renders Purchase of Expensive Oyster, Cockle and other Shell Unnecessary.

#### Analysis—

Calcium Carbonate	...	89.30	Calcium Sulphate	...	traces only
Silica	...	3.03	Moisture, organic matter, etc.	...	3.19
Oxides of Iron and Alumina	...	3.92			
Calcium Phosphate	...	.56			100.00

#### PRICES:

F.O.R. BAGS FREE.

Poultry or Chick Size, Leckhampton Grit: 8s. 6d. per cwt.; £3 10s. 0d. per  $\frac{1}{2}$  ton; £4 4s. 0d. per ton.

Also

Poultry or Chick Size, Plain Limestone Grit: 3s. 6d. per cwt.; £1 12s. 6d. per  $\frac{1}{2}$  ton; £3 0s. 0d. per ton.

Quarried and Prepared Solely by

**The Leckhampton Quarries Co., Ltd.,**  
CHELTENHAM, GLOSTERSHIRE.

## Calor Clogs

YOU WANT COSY FEET

NOW.

THIS  
WARM LINED  
CLOG FOR

6/11

Post Paid.

ALL  
SIZES  
SAME  
PRICE.



IRONS ON  
SOLES and  
HEELS  
1/- MORE.

You know "Calor" Clogs are good, and save your boots in the garden, and at all out-of-door or cold indoor work. Send for Catalogue of Boots and Clogs. Free for a P.C. New Low Price. PATTERSON, D 87, Overgate, DUNDEE

## The ELMS EGG FARM,

HATHERN, LEICESTERSHIRE.

50 White Leghorns, 1921, April hatched, through moult, individual records from 180-195 eggs.

PRICE: 7/6 Each.

25 White Leghorn Pullets, hatched April and May, 1922, in full lay. All from L2 stock.

PRICE: 12/6 Each.

Seven—R.I.R. Hens, 1920, and Cock, 1921 (Golden's). These hens average for two years: 390 eggs each. In full lay.

PRICE, PER PEN: £4 0s. 0d.

25 R.I.R. Pullets, March, 1922, hatched (Golden's), in full lay.

PRICE: 13/- Each.

Five White Leghorn Stock Cock-ereis, dam 264 eggs, grand dam 810 in four years.

PRICE: 15/6 Each.

Foundation Blood of White Leghorns, Barron-Snowden, and Cam-Metcalf.

Proprietor: CHARLES ASHTON,  
S.P.B.A.



## I am a Eugenist!

The Scion of a Noble Race  
Outclassing my Fellows  
Not by Breeding alone  
But by Thews and Sinews  
Vim and Virility.  
A Product of Steyne Foods  
The Science-sense of Feeding.

Lists and Booklet Post Free.

**The STEYNE FOODS Co.,**  
Steyning, Sussex.

## "Poultry Foods and Feeding."

ALSO

"Chicken Rearing."

BY

**TOM NEWMAN**

Rudgwick, Sussex.

Price 6 $\frac{1}{2}$ d. Each,  
Post Free.

## DR. J. H. BALDWIN,

SPRINGFIELD P.F. WIMBORNE, DORSET.

ONLY THE VERY FINEST STOCK in

White Leghorns,

White Wyandottes,

R. I. Reds (s.c.)

Bred from PENS of TESTED PARENTS,  
and PENS headed COCKERELS bred from  
PROVED L2 Birds.

Water cannot Freeze.  
Egg yield increased.



The "Kenmore 'Non-Freezer' Waterer" is the result of seven years' study and experiment. Absolutely sanitary, it provides a constant clean water at the right temperature, and always in front of the birds. Saves half the labour on large farms. Disease is obviated, the birds lay regularly, and there is an enormous saving of labour. 42/6 carriage paid.

There are no parts to get out of order. One waterer will water ten birds for over a week.

**KENMORE**  
EGG FARM, LTD.,  
CHARING, KENT

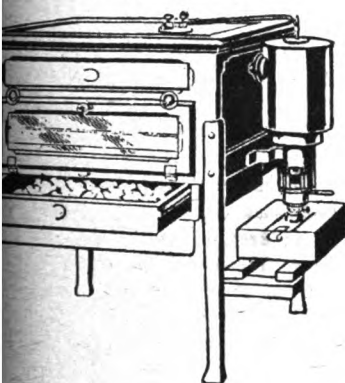
# BUY A GLOUCESTER — THE REST IS EASY!

SEND FOR THE  
ART CATALOGUE

IT IS FREE,  
AND POST FREE

## THE 'GLOUCESTER' INCUBATOR THE MOST FAMOUS HOT AIR HATCHER IN THE WORLD.

The 'GLOUCESTER.'



It will give you the largest hatching percentage. This is why more poultry breeders have wanted and purchased the "Gloucester" than all others of this type, as it brings them greatly-increased profits and high satisfaction. It is selected by the World's Leading Breeders for its absolute dependability, and its high reputation for efficiency and service has never been equalled.

No prospective buyer of an incubator should make a final decision until he or she has read the interesting facts in our Art Catalogue. It will pay handsomely to obtain a copy without delay.

Prices of Single Incubators.			£	s.	d.	
No. 0	45 Egg	Oil or Gas	...	6	0	0
No. 1	70	"	...	6	15	0
No. 2	100	"	...	7	15	0
No. 3	150	"	...	8	15	0
No. 4	250	"	...	11	10	0
No. 5	390	"	...	15	0	0

Fitted with Automatic Gas Valve, all sizes. 5/- each.

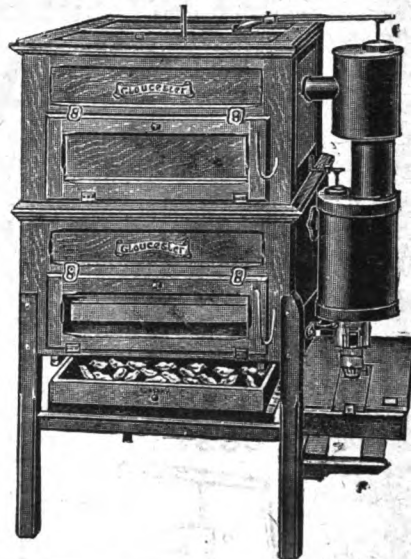
Fitted with Automatic Gas Valve, all sizes, 5/- each.

Prices of Doubles.			£	s.	d.
No. 2	200 to 220 Egg	"	...	16	2 6
No. 3	300 to 320	"	...	18	5 0
No. 4	500 to 520	"	...	24	10 0

All sent Carriage Paid. Irish Prices plus 5 per cent.  
Packing Crates Free of Charge—not Returnable.

All sent Carriage Paid. Irish Prices plus 5 per cent.  
Packing Crates Free of Charge—not Returnable.

Pat.: DOUBLE 'GLOUCESTER.'



THE GLOUCESTER INCUBATOR CO., LTD.,  
No. 5, WOODCHESTER WORKS, nr, STROUD, GLOS.

## THESE ARE STRAINS OF QUALITY

Rocks, Rhode Island Reds,  
Wyandottes, White Leg-  
s, Aylesbury and Runner  
Ducks.

R. C. BEATTIE  
side P.F. Totnes, S. DEVON.

PNESTED PEDIGREE STOCK.

CS MATING  
LIST  
FREE. CHICKS

EGGS. CHICKS.  
LYNDEN LEMON,  
M.P.C., N.U.P.S., S.P.B.A.,  
Poultry Farm, Devizes.

Booking Orders in advance for 1923.

LEGHORNS, LIGHT SUSSEX, W.  
WYANDOTTES.  
BLACK and WHITE LA BRESSE.

Shows at UTILITY SHOWS in 1922:  
TOTTENHAM, N.U.P.S.  
YEovil.

OLYMPIA, TROWBRIDGE,  
BRISTOL, N.U.P.S.  
NORTHUMBERLAND HEATH:  
Large Cup, 32 Firsts and Specials.  
White La Bresse Pullets, 17/6 each,  
carriage paid.

## CHAMPION POULTRY FOODS FOR EGG PRODUCTION.

	per cwt.	s.	d.
Champion Laying Meal	...	19	0
Sussex Ground Oats	...	22	0
A.I. Poultry Mixture (with or without Maize)	...	18	0
X.B. Mixture	...	17	0
Heavy Old Clipped Oats	...	18	0
Scotch Clipped Oats	...	16	0

No Dust. No Waste. Mixed and Well  
Cleaned by Special Machinery.

### Hundreds of Testimonials.

Carriage Paid England and Wales.  
Scotland 2/- cwt. extra

Samples and Price Lists Free on  
application to:—

Wm. BRINKLER & SONS, Ltd.,

Poultry Food Dept.,

5, OLAPHAM GRANARIES,

LONDON, S.W. 4,

Telephone: Battersea 211.

## Let SPRATT'S Ship your Livestock,

Relieve you of every worry from  
start to finish, insure your birds,  
and deliver them in perfect con-  
dition to any part of the world.

Spratt's will help you to satisfy your  
foreign and colonial buyers by pack-  
ing and shipping your birds in first-  
class style. Poultry is shipped in  
specially designed coops, you are  
relieved of every detail from start to  
finish. Insurances effected. Write for  
particulars to

Shipping Department,  
SPRATT'S PATENT LIMITED,  
24, Fenchurch St., E.C.3.

## Hodkinson, M.S.P.B.A., HOLYWELL, HUNTINGDONSHIRE,

Is now Booking Orders for delivery January  
to April, at 10/6 per dozen, from Specially  
Selected Pens of R.I.R., White Wyandotte,  
White and Black Leghorns.

Every hen a daughter of competition win-  
ners, and each pen is mated to Special  
Cockerels from Boucher's, Wilson Beattie's,  
Padman's, direct imported and "Daily  
Mail" Champion Pens.

Further Particulars on Application.

Eggs from Flocks same Strains,

6/- per doz., 45/- per 100.

All Breeding Pens, L2 Birds.

# To make sure of 1923 proving a "Better Year."

**A** "BETTER YEAR" depends on more than mere "luck." It depends on the right man working on the right lines with the right material. Ever since I started poultry-breeding I have found each year better than the previous one, and, although I may have had my share of good luck, I maintain that I have *made* them better chiefly by my own efforts. And what has happened in my case will happen in yours *if you make up your mind that it shall*. One of the main things to do is to lay your plans well ahead. Do your "thinking out" while you have plenty of time.

I have selected my birds for my own 1923 breeding, and I have set aside a number of breeding pens for disposal, I advise you to buy your breeding birds now, while you can get the pick. Remember that the value of your 1923 broods will depend upon the stock you breed from, and that one cockerel and 10 hens can produce 500 chicks next season. Therefore, your cockerels should be the best you can afford, and the initial cost will be a small matter when spread over the season's hatch. I practice what I preach, and the results prove the value of my advice. I can offer early 1922 cockerels, all from high record hens, well developed and true to type. They are healthy, hardy birds, brought up under natural conditions on free range. My 1920-1921 hens have been selected from thousands of pullets and have all laid over 200 eggs in their pullet year. Many of them have laid up to 280. I shall be pleased to send you particulars of my breeding pens, and if you will give me a general idea of your requirements, I will tell you just what I think will suit you best. I want to help you "make 1923 a better year."

Whether you favour White Leghorns or Black Leghorns; White Wyandottes or Rhode Island Reds; Light Sussex or Black Mendels; I can offer you exceptional value.

Whenever possible see the birds before you buy. Come to "Heaslands" if you can; but if not, remember that I guarantee every bird I sell to give satisfaction.

## C. Bostock Smith

Pedigree Utility Poultry

"Heaslands" Hayward's Heath, Sussex, England.

Write for Free Booklet "Profitable Poultry."

## VITAXA FOR VIGOUR AND VITALITY

### A Health Giver and Money Saver.

converting losses into profits by releasing and augmenting the VALUABLE VITAMINE CONTENT OF THE FOOD RATION.

#### THIS HIGHLY CONCENTRATED

ESSENCE overcomes the faulty assimilation of nourishment, which is the primary cause of sluggish layers, backward pullets, immature chicks and imperfect fecundity.

Neither an injurious spice nor forcing agent

Packed in patent air-tight tins at 2/6 & 3/9 also in patent tin buckets of about 14 lbs. at 10/6 each; 2 buckets for 20/-, 3 for 29/-, 4 for 38/-

Carriage paid, with full Directions.

SOLE MAKERS--

Estd. 1859.

**ALBION THORPE & SONS,**  
Poultry Food Makers, RYE, Sussex

VITAXA FOR VIGOUR AND VITALITY

VITAXA FOR VIGOUR AND VITALITY

## T. H. REDFORD, M.S.P.B.A.,

Beeches Poultry Farm, MOBBERLEY (Cheshire).

### WHITE WYANDOTTES. WHITE LEGHORNS.

**SKERELS**, February Hatched, bred from L2 Hens, Sire's Dams, L2 Hens, with a yearly record of 245-255 Eggs.

the above Hens had also a year's record of 230 Eggs. Pedigrees and any particulars on application.

Price 21/- each.

LEGHORN PULLETS, also 60 Late May Hatched, at 10/6 each.

## TIMBER—What about it?

ENORMOUS REDUCTIONS. WE PAY CARRIAGE ON ORDERS OVER £1.

Compare our Prices with others, but you cannot compare the quality.

x 4in. T.G.V. .... 7/3	3in. x 6in. Saw'n Brds. 8/6	2in. x 2in. Battens ... 7/6
x 5in. T.G.B. .... 8/3	3in. x 6in. Saw'n Brds. 8/6	3in. x 1in. Battens ... 6/-
x 6in. T.G.B. .... 10/6	1in. x 6in. Saw'n Brds. 11/3	2in. x 3in. Battens ... 11/6
x 4in. T.G.V. .... 9/-	3in. x 2in. Battens ... 2/6	2in. x 4in. Battens ... 15/3
x 5in. T.G.V. .... 8/6	2in. x 1in. Battens ... 4/-	3in. x 3in. Battens ... 17/3
x 6in. T.G.V. Fl'ng 13/-	2in. x 1 1/2in. Battens ... 5/6	3in. x 4in. Battens ... 25/-
x 6in. Withboards 7/-		3in. x 6in. Battens ... 38/-

100 running feet. OUT TO LENGTHS OR MULTIPLES. Special Terms for large quantities. Other sizes quoted for. When ordering please state name of nearest Goods. Saw'n Boards and Battens, planed all round, at slight extra charge. Sash and Mouldings, Greenhouse Timber, etc. We also supply Roofing Felt. Send enquiries. WE CAN GIVE IMMEDIATE DELIVERY FROM STOCK.

**USH & PARK** (Dept.) Clarendon Road Saw Mills, SEAFORTH.  
LIVERPOOL: Tel. 624 Waterloo.

## POULTRY BREEDERS

### DRIED YEAST.

Analysis.

	per cent.
Moisture ... ..	8.73
Oil ... ..	.60
Albuminoids ... ..	45.94
Carbohydrates ... ..	36.33
Woody Fibre ... ..	.03
*Mineral Matter ... ..	8.38
	100.00

Nitrogen ... ..	7.36
*Including Sand ... ..	.06

### OSSIFIED YEAST.

Analysis.

	per cent.
Moisture ... ..	6.85
Oil ... ..	12.22
*Albuminoids ... ..	39.76
Carbohydrates ... ..	19.93
Fibre ... ..	0.20
Ash ... ..	21.04
	100.00

	per cent.
* Containing Nitrogen ... ..	6.36
" " Phosphate of Lime ... ..	18.82
" " Sand and Silicious matter ... ..	0.33
Total Food Units ... ..	.150

Also our

### COMPLETE POULTRY MEAL.

This Meal, containing both the above, is composed of the soundest and purest ingredients we can procure, and we believe it to be superior to any other Meal offered for the feeding of Poultry, and for egg production.

PRICE: 21/- per cwt.

Dried Yeast, 21/- per cwt.

Ossified Yeast, 21/- per cwt.

Carriage Paid England and Wales.  
Cash with Order.

10 per cent. discount to Members of the S.P.B.A. if ordered through the Association.

**THE ENGLISH GRAINS Co., Ltd.,**  
Derby Road, BURTON-ON-TRENT.

### PURE SWEET STERILISED BLOOD.

#### RENTOX (Regd.).

7 lb. bag sent post free for 5s.

Full Particulars on request.

MIDLAND CATTLE PRODUCTS, Ltd.  
BORDESLEY STREET,  
BIRMINGHAM.

## JOHN A. BETTS,

Manor Poultry Farm, Hampstead Norris, NEWBURY.

Fertile Eggs, 7/6 doz.; 55/- 100.

Day-old Chicks, 20/- dozen.

Free Range Cockerels and Drakes, 15/-

Hundreds sold last season.

1921 Hens, 10/- 1922 Ancona Pullets only

10/- each.

Breeds kept: Langshans, Minorcas, Favonrolles, Houdans, Anconas, Campines, Wyandottes, Light and Speckled Sussex, B.I.E. Brd. Eks., Buff and Brd. Eks., Bl. W. and Brn. Leghorns, Buff and White Orpingtons, Aylesburys, Khaki-O's, Buff Orpingtons, and Runners (both colours).



**W. A. BAINBRIDGE,**  
**Keyneston Manor Poultry Farm,**  
**BLANDFORD.**

**White Wyandottes. Rhode Island Reds (S.c.)**  
**Light Sussex.**

**Sittings of first-grade eggs from L2 birds, mated to Cockerels from large egg and high record Hens.**

*Only the VERY BEST supplied.*

**THREE-MONTHS PULLETS. Day-old Chicks. Cockerels from large egg, high record L2 Hens.**

**COURT HEY POULTRY FARM,**  
**Broad Green, Liverpool.**

High-Class White Wyandotte and White Leghorn Cockerels for Sale.

**YOUR LAST CHANCE to SECURE REALLY GOOD BLOOD at a LOW PRICE.**

Only a few Wyandottes left.

Three April hatched birds from a hen with 244 record first year, and 205 second year, by a 254 sire, dam and sires dam non-broody. PRICE: 30/- Each.

Several Cockerels, March hatched, direct from Frank Snowden's Special Pens, records of which we will give. PRICE: 35/- Each. Leghorns, from pens with records 200 to 220 by 242 sires. PRICE: 25/- Each.

From 220 to 242 dams by 276 sire. PRICE: 30/- Each.

Special Quotation for Quantity in Leghorns.

Orders to J. BARGH, Manager.

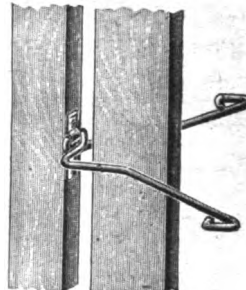
Proprietors: **J. BIBBY & SONS, LTD.**

**THE ABDUCTOR POULTRY GATE LATCH.**

of utility simplicity, durability, and cheapness. Used on up-to-date farms throughout the country. Cannot go wrong or get out of order. and will last a lifetime.

Price: 1/- each. Postage, 4d. extra each. 6 or 12, 1/- extra postage.

R. O'H P. THEOBALDS, White Wings P.F., St. Mary Bourne, Nr. Andover.



Patent No. 167918.

Sole Manufacturers:

**E. A. SAUNDERS**  
**POULTRY FARM**  
**KIDLINGTON, OXFORD.**

Pedigree Laying Staples  
**WHITE WYANDOTTES, WHITE**  
**ANCONAS.**

Day-Old Chicks.	Hatching Eggs
20/- per doz.	8/6 per doz.
80/- per 50.	32/6 per 50.
150/- per 100.	60/- per 100.
Carriage Paid. Unfertilized Replaced.	

Special Quotations for Larger Quantities or Regular Weekly Supplies.

**Every Cockerel Mated is the Son of an Over-200-Egg Hen by Trap-Nest Record.**

Twenty acres devoted to Poultry  
 Over 2,000 Stock Birds.  
 Incubator Capacity for over 6,000 Eggs.

**NOTE THESE PRICES!**

Then compare **QUALITY** and **NUTRITIVE VALUE** in relation to the food you now use.

**POULTRY FOODS**

	per cwt.
Wheat	11/-
Kibbled Maize (Sifted)	10/-
Clipped Oats	9/-

**MEALS**

Maize Meal (fine)	11/-
Sussex Ground Oats	10/-
S.F.C. Dry Mash	10/-
Bran	10/-
Middlings	10/-

ALSO—Maize (whole), Dair, Barley Oat Feed, Barley Meal, Barley Meal (Poultry), Service Meal (fine), Cockle Shell, Flint Grit, Mixed Grit, Pure Oyster Shell, in K. and E. Sizes.

Prices on Application.

Resolve to try these **ECONOMICAL QUALITY FOODS** today. Order through Secretary, S.P.B.A., and get your discount.

*The* **Service Food Co.**  
 VICTORIA MILLS  
 GRIMSBY

**MILK FOR CHICKS.**

Tom Newman says:—"For the young chick there is no food of equal value. There is nothing like milk to give a chick a good start in life." ("Eggs," p. 203, 19th April).

Col. Hardy says:—"As regards chick rearing I have found the use of Dried Separated Milk very successful." ("Eggs," p. 231, 3rd May).

Mr. F. W. Wait says:—"I am convinced that Dried Skim Milk or Dried Buttermilk will be regarded as one of the necessary constituents of the ration for chicks."

**DRIED SKIMMED MILK - 24/- per cwt.**

Also for fattening:—

**SWEETENED CONDENSED MILK- 8/- per case of 48 tins.**

**GENUINE SUSSEX GROUND OATS 16/- per cwt.**

Write for Particulars.

**5 PER CENT. DISCOUNT to S.P.B.A. MEMBERS IF ORDERED THROUGH ASSOCIATION.**

Terms:—Cash with Order.

Carriage Forward Heathfield or London.

**CARR, MACDONALD & CLEVELY, LTD.,**

BRITANNIA MILLS,  
 HEATHFIELD, SUSSEX.

6, BROAD STREET,  
 RATCLIFFE, LONDON, E.1.

# COUP, GAPES, CRAMP, COLDS, SCALY LEG, AND ALL POULTRY DISEASES.

**Mr. Cecil L. Byrne,**

*gives Instructions relative to the Prevention and Cure of Diseases, in his Book,  
"HEALTHY POULTRY."*

**Supplied on Application FREE OF CHARGE by the Manufacturers of**

## FLUID **IZAL** POWDER

### DISINFECTANT

THE INDISPENSABLE FACTORS IN MAINTAINING IMMUNITY FROM DISEASE AND INSECT PESTS.  
A Little IZAL POWDER dusted amongst the Feathers instantly Rids the Birds of FLEAS, LICE and such Parasites.

#### IZAL FLUID.

6/- per Half-gallon. 10/6 per Gallon.

At all Chemists.

#### IZAL POWDER.

7/- per 14 lb. Bag. 14/- per 50 lb. Keg.

At all Chemists.

**EWTON, CHAMBERS & CO., Ltd., Thorncliffe, near Sheffield; and  
331, GRAY'S INN ROAD, LONDON, W.C.1.**

*Disinfectant Manufacturers by Royal Warrant to His Majesty the King.*

## GOOD NEW TIMBER!

### WE

PAY CARRIAGE ON ALL ORDERS £1 and OVER.  
GIVE 5 per cent. DISCOUNT ON ORDERS £10 and OVER.  
GUARANTEE SATISFACTION OR REFUND YOUR MONEY  
GIVE PROMPT DESPATCH.

### YOU

CAN RELY UPON US SENDING WHAT YOU WANT, AS  
WE WANT TO PLEASE OUR CLIENTS, NOT OURSELVES.

sq. ft.	Per 100 ft.	Size.	Per 100 ft.
	s. d.		s. d.
2 Battens	2 0	1 x 6 Boards	12 0
1 " "	2 0	1 x 6 " "	7 0
1 " "	4 0	1 x 6 " "	14 0
1 " "	6 0	4 inch Weatherboards	5 0
2 " "	8 0	6 inch " "	7 0
3 " "	12 6	6 inch " "	9 0
4 " "	16 0	4 x 4 P.T.G. Matching	5 6
1 " "	6 0	1 x 5 " "	8 6
3 " "	18 0	1 x 6 " "	11 0
4 " "	25 0	1 x 4 " "	8 0
6 " "	29 0	1 x 6 " "	9 6
4 Boards	5 0	1 x 6 P.T.G. Flooring	11 0
4 " "	10 6	1 x 5 " "	9 6
5 " "	6 6		

LARGE STOCKS ALWAYS ON HAND.  
CUT TO ANY LENGTH OR MULTIPLE.

## BROWN & JONES

Proprietors.  
W. BROWN,  
J. H. IVENS,

TIMBER MERCHANTS (Dept. M.)

MIDDLE WHARF, BAILY ST., CAMBERWELL,  
LONDON, S.E.5.

NO CONNECTION WITH ANY OTHER FIRM.

## FRANK SNOWDEN WINS

In English and American International Laying Tests.  
FINAL REPORTS.

- 1st.—GOLD MEDAL, with White Leghorns at Harper-Adams' College Test, Salop.
- SILVER CUP, with White Leghorns, for HIGHEST PEN SCORE of the whole competition for month of January, at Missouri State International Test.
- 2nd.—With 20 Special High Record Merit Ribbons—White Wyandottes, at Missouri State International Test.
- 3rd.—BRONZE MEDAL, with White Leghorns, at The National Championship Laying Test.
- 5th.—£25, with White Leghorns at "The Daily Mail" £1,000 two-year Test.
- 6th.—With White Leghorns at The Missouri State International Test.
- 11th.—With White Leghorns, at Harper-Adams' College Test—67 pens competing in Section.

SUCCESSES WITHOUT PARALLEL.  
CONSISTENCY SPLENDIDLY MAINTAINED.

Enquire at once for Stock Cockerels in White Wyandottes and White Leghorns. Prices from 21/- to £5 5s.  
White Leghorn Pullets from 21/- to 42/-.  
Place your order now for Eggs and Chicks for coming season.

Post Your Request (enclosing 2d. stamps) for 1923.

Catalogue of Matings which will be ready for issue on January 1st, 1923.

THE HOME OF CONSISTENT QUALITY IS  
**FRANK SNOWDEN,**  
RAIKES HALL POULTRY FARM, COWLING,  
KEIGHLEY, YORKS.  
(Phone: Crosshills 85).



## Summerfield White Wyandottes

Records for the Only Pens of this truly Wonderful Strain that have Competed in Laying Trials at the Harper-Adams Agricultural College, Newport, Salop—

1919/1920. Pen 60. Average per bird, 198.33, of which only 21.66 were second grade.

1920/1921. Pen 52. Gold Medal World's Record Pen. This pen broke all previous records.

1921/1922. Pen 74. Bronze Medal, First Class Pen Certificate, and Seven Individual Award Certificates.

Every bird in this pen took a Certificate (including the Reserve Bird).

Only a limited number of Eggs and Day-Old Chicks will be available for delivery in January, February, and March, 1923.

Telephone:  
Northam, 62.

**MICHAEL F. PHELAN,**

S.P.B.A.

Telegrams and  
Cables:

Phelan, Northam.

Code used:

Marconi International.

Railway Station:  
Bideford,  
L. & S.W.R.

Cleave Barton, Northam, N. Devon (England).

## 40% Increase

in EGG PRODUCTION by the use of

## "KELITE" LAMPS

(British Made).

Install them in your Laying Houses To-day.

"Stormlite"  
Lantern.

Burns Petrol.

**38/6**

Carriage Paid.



*Absolutely Safe  
and Reliable.*

**250 c.p.,**  
Costing less than  
**½d. per hour.**

The "KELITE" System of poultry lighting for the winter is the simplest and most economical. The "STORMLITE" is strongly made, fitted with mica windows, and gives a steady brilliant, white light, which is not affected by wind or storm. We are manufacturers of all types of incandescent oil and petrol lamps for all purposes.

Use "KELITE" TABLE LAMPS, HANGING LAMPS, etc., etc., for the HOME.  
SEND TO-DAY FOR LISTS.

**KITSON ENGINEERING CO. (London), Ltd.,**  
(Dept. "E"), Stamford, Lincs.

## More and Bigger Eggs from your Poultry.

can be obtained by feeding your birds on a natural and complete food.

# PULBIS POULTRY FOOD

Users will immediately note the improved condition of their birds, the greatly increased number, and the superior quality of the eggs. There is no dust or waste, every particle contains highly nutritious ingredients in proper proportions, constituting the most economical Food invented.

From all Corn Merchants, etc., in two sizes,  
for Young and Adult Birds.

**3½ lb. Bag, 1/-, 7 lb. Bag, 2/-.**

Made by the Manufacturers of  
**MELOX and MELOX MARVELS,**  
the PERFECT DOG FOODS

**W. G. CLARKE & SONS, Ltd.,**  
LIMEHOUSE, LONDON, E.





CORNELL UNIVERSITY

AT



NEW YORK STATE COLLEGES  
OF  
AGRICULTURE AND HOME ECONOMICS

ALBERT R. MANN  
LIBRARY